

Annex 1C. Fuel Combustion in Industrial, Commercial, Residential, Agricultural and Other Sectors

(IPCC 1A1b, 1A2, 1A4 & 1A5)

to the Technical Support Document for the 2000-2011 California's Greenhouse Gas Emissions Inventory

Back to main document: http://www.arb.ca.gov/cc/inventory/doc/methods_00-11/ghg_inventory_00-11_technical_support_document.pdf

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

IPCC category = 1A1b — Fuel Combustion Activities - Energy Industries - Petroleum Refining

► Sector = Petroleum Refining

Activity = Fuel combustion - Associated gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|----------------------------------|----------|---------------------|---------------|
| Fuel combustion - Associated gas | 2000 | 0 scf | TSD General |
| Fuel combustion - Associated gas | 2001 | 0 scf | TSD General |
| Fuel combustion - Associated gas | 2002 | 0 scf | TSD General |
| Fuel combustion - Associated gas | 2003 | 0 scf | TSD General |
| Fuel combustion - Associated gas | 2004 | 0 scf | TSD General |
| Fuel combustion - Associated gas | 2005 | 0 scf | TSD General |
| Fuel combustion - Associated gas | 2006 | 0 scf | TSD General |
| Fuel combustion - Associated gas | 2007 | 0 scf | TSD General |
| Fuel combustion - Associated gas | 2008 | 0 scf | TSD General |
| Fuel combustion - Associated gas | 2009 | 0 scf | ARB, 2012b |
| Fuel combustion - Associated gas | 2010 | 0 scf | ARB, 2012b |
| Fuel combustion - Associated gas | 2011 | 804,455,446 scf | ARB, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.0651 g / btu | Wang, 2007 |
| Fuel CO2 emission | 2001 | 0.0651 g / btu | Wang, 2007 |
| Fuel CO2 emission | 2002 | 0.0651 g / btu | Wang, 2007 |
| Fuel CO2 emission | 2003 | 0.0651 g / btu | Wang, 2007 |
| Fuel CO2 emission | 2004 | 0.0651 g / btu | Wang, 2007 |
| Fuel CO2 emission | 2005 | 0.0651 g / btu | Wang, 2007 |
| Fuel CO2 emission | 2006 | 0.0651 g / btu | Wang, 2007 |
| Fuel CO2 emission | 2007 | 0.0651 g / btu | Wang, 2007 |
| Fuel CO2 emission | 2008 | 0.0651 g / btu | Wang, 2007 |
| Fuel CO2 emission | 2009 | 0.0651 g / btu | Wang, 2007 |
| Fuel CO2 emission | 2010 | 0.0651 g / btu | Wang, 2007 |
| Fuel CO2 emission | 2011 | 6.761E-03 g / btu | Wang, 2007 |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.015E-07 g / btu | USEPA 2012 |
| Heat content | 2000 | 808 btu / scf | Wang, 2007 |
| Heat content | 2001 | 808 btu / scf | Wang, 2007 |
| Heat content | 2002 | 808 btu / scf | Wang, 2007 |
| Heat content | 2003 | 808 btu / scf | Wang, 2007 |
| Heat content | 2004 | 808 btu / scf | Wang, 2007 |
| Heat content | 2005 | 808 btu / scf | Wang, 2007 |
| Heat content | 2006 | 808 btu / scf | Wang, 2007 |
| Heat content | 2007 | 808 btu / scf | Wang, 2007 |
| Heat content | 2008 | 808 btu / scf | Wang, 2007 |
| Heat content | 2009 | 808 btu / scf | Wang, 2007 |
| Heat content | 2010 | 808 btu / scf | Wang, 2007 |
| Heat content | 2011 | 808 btu / scf | Wang, 2007 |

Activity = Fuel combustion - Catalyst coke

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|---------------------------------|----------|---------------------|---------------|
| Fuel combustion - Catalyst coke | 2000 | 2,197,670 ton | Schremp, 2008 |
| Fuel combustion - Catalyst coke | 2001 | 2,190,093 ton | Schremp, 2008 |
| Fuel combustion - Catalyst coke | 2002 | 2,213,212 ton | Schremp, 2008 |
| Fuel combustion - Catalyst coke | 2003 | 2,296,772 ton | Schremp, 2008 |
| Fuel combustion - Catalyst coke | 2004 | 2,333,265 ton | Schremp, 2008 |
| Fuel combustion - Catalyst coke | 2005 | 2,334,935 ton | Schremp, 2008 |
| Fuel combustion - Catalyst coke | 2006 | 2,340,795 ton | Schremp, 2008 |
| Fuel combustion - Catalyst coke | 2007 | 2,170,609 ton | Schremp, 2008 |
| Fuel combustion - Catalyst coke | 2008 | 1,952,912 ton | Schremp, 2008 |
| Fuel combustion - Catalyst coke | 2009 | 2,292,797 ton | ARB, 2012b |
| Fuel combustion - Catalyst coke | 2010 | 2,149,260 ton | ARB, 2012b |
| Fuel combustion - Catalyst coke | 2011 | 2,345,468 ton | ARB, 2012b |
| Fuel CH4 emission | 2000 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.102 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|----------------------|------------|
| Fuel N2O emission | 2000 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.600E-06 g / btu | USEPA 2012 |
| Heat content | 2000 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2001 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2002 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2003 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2004 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2005 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2006 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2007 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2008 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2009 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2010 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2011 | 24,800,000 btu / ton | USEPA 2012 |

Activity = Fuel combustion - Digester gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|--------------------------------|-----------------|----------------------------|----------------------|
| Fuel combustion - Digester gas | 2000 | 1,404,824 scf | TSD General |
| Fuel combustion - Digester gas | 2001 | 1,436,727 scf | TSD General |
| Fuel combustion - Digester gas | 2002 | 1,446,379 scf | TSD General |
| Fuel combustion - Digester gas | 2003 | 1,476,076 scf | TSD General |
| Fuel combustion - Digester gas | 2004 | 1,434,851 scf | TSD General |
| Fuel combustion - Digester gas | 2005 | 1,482,540 scf | TSD General |
| Fuel combustion - Digester gas | 2006 | 1,516,837 scf | TSD General |
| Fuel combustion - Digester gas | 2007 | 1,502,884 scf | TSD General |
| Fuel combustion - Digester gas | 2008 | 1,482,953 scf | TSD General |
| Fuel combustion - Digester gas | 2009 | 1,377,000 scf | ARB, 2012b |
| Fuel combustion - Digester gas | 2010 | 6,433,000 scf | ARB, 2012b |
| Fuel combustion - Digester gas | 2011 | 62,978,881 scf | ARB, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2011 | 1.067E-06 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2000 | 0.063 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2001 | 0.063 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2002 | 0.063 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2003 | 0.063 g / btu | ARB, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CO2 emission | 2004 | 0.063 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2005 | 0.063 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2006 | 0.063 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2007 | 0.063 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2008 | 0.063 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2009 | 0.063 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2010 | 0.0631 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2011 | 0.0174 g / btu | ARB, 2012b |
| Fuel N2O emission | 2000 | 1.001E-07 g / btu | ARB, 2012b |
| Fuel N2O emission | 2001 | 1.001E-07 g / btu | ARB, 2012b |
| Fuel N2O emission | 2002 | 1.001E-07 g / btu | ARB, 2012b |
| Fuel N2O emission | 2003 | 1.001E-07 g / btu | ARB, 2012b |
| Fuel N2O emission | 2004 | 1.001E-07 g / btu | ARB, 2012b |
| Fuel N2O emission | 2005 | 1.001E-07 g / btu | ARB, 2012b |
| Fuel N2O emission | 2006 | 1.001E-07 g / btu | ARB, 2012b |
| Fuel N2O emission | 2007 | 1.001E-07 g / btu | ARB, 2012b |
| Fuel N2O emission | 2008 | 1.001E-07 g / btu | ARB, 2012b |
| Fuel N2O emission | 2009 | 1.001E-07 g / btu | ARB, 2012b |
| Fuel N2O emission | 2010 | 9.999E-08 g / btu | ARB, 2012b |
| Fuel N2O emission | 2011 | 2.100E-07 g / btu | ARB, 2012b |
| Heat content | 2000 | 2,517 btu / scf | ARB, 2012b |
| Heat content | 2001 | 2,517 btu / scf | ARB, 2012b |
| Heat content | 2002 | 2,517 btu / scf | ARB, 2012b |
| Heat content | 2003 | 2,517 btu / scf | ARB, 2012b |
| Heat content | 2004 | 2,517 btu / scf | ARB, 2012b |
| Heat content | 2005 | 2,517 btu / scf | ARB, 2012b |
| Heat content | 2006 | 2,517 btu / scf | ARB, 2012b |
| Heat content | 2007 | 2,517 btu / scf | ARB, 2012b |
| Heat content | 2008 | 2,517 btu / scf | ARB, 2012b |
| Heat content | 2009 | 2,517 btu / scf | ARB, 2012b |
| Heat content | 2010 | 2,517 btu / scf | ARB, 2012b |
| Heat content | 2011 | 841 btu / scf | ARB, 2012b |

Activity = Fuel combustion - Distillate

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|------------------------------|----------|---------------------|---------------|
| Fuel combustion - Distillate | 2000 | 66,402 gal | Schremp, 2008 |
| Fuel combustion - Distillate | 2001 | 1,697,178 gal | Schremp, 2008 |
| Fuel combustion - Distillate | 2002 | 97,104 gal | Schremp, 2008 |
| Fuel combustion - Distillate | 2003 | 164,808 gal | Schremp, 2008 |
| Fuel combustion - Distillate | 2004 | 158,970 gal | Schremp, 2008 |
| Fuel combustion - Distillate | 2005 | 6,500,340 gal | Schremp, 2008 |
| Fuel combustion - Distillate | 2006 | 3,285,996 gal | Schremp, 2008 |
| Fuel combustion - Distillate | 2007 | 2,643,774 gal | Schremp, 2008 |
| Fuel combustion - Distillate | 2008 | 5,055,288 gal | Schremp, 2008 |
| Fuel combustion - Distillate | 2009 | 993,630 gal | ARB, 2012b |
| Fuel combustion - Distillate | 2010 | 1,452,564 gal | ARB, 2012b |
| Fuel combustion - Distillate | 2011 | 128,832 gal | ARB, 2012b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | ARB, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CH4 emission | 2009 | 2.968E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2010 | 1.614E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2011 | 2.921E-06 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2000 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.0729 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2010 | 0.0415 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2011 | 0.072 g / btu | ARB, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 5.926E-07 g / btu | ARB, 2012b |
| Fuel N2O emission | 2010 | 3.194E-07 g / btu | ARB, 2012b |
| Fuel N2O emission | 2011 | 5.841E-07 g / btu | ARB, 2012b |
| Heat content | 2000 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2003 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2004 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2005 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2006 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2009 | 139,039 btu / gal | ARB, 2012b |
| Heat content | 2010 | 138,123 btu / gal | ARB, 2012b |
| Heat content | 2011 | 138,000 btu / gal | ARB, 2012b |

Activity = Fuel combustion - Ethanol

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|---------------------------|----------|---------------------|--|
| Fuel combustion - Ethanol | 2000 | 0 gal | TSD General |
| Fuel combustion - Ethanol | 2001 | 0 gal | TSD General |
| Fuel combustion - Ethanol | 2002 | 0 gal | TSD General |
| Fuel combustion - Ethanol | 2003 | 0 gal | TSD General |
| Fuel combustion - Ethanol | 2004 | 0 gal | TSD General |
| Fuel combustion - Ethanol | 2005 | 0 gal | TSD General |
| Fuel combustion - Ethanol | 2006 | 0 gal | TSD General |
| Fuel combustion - Ethanol | 2007 | 0 gal | TSD General |
| Fuel combustion - Ethanol | 2008 | 0 gal | TSD General |
| Fuel combustion - Ethanol | 2009 | 0 gal | ARB, 2012b |
| Fuel combustion - Ethanol | 2010 | 0 gal | ARB, 2012b |
| Fuel combustion - Ethanol | 2011 | 40,193 gal | Mandatory Reporting (used same % ethan |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.0684 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA 2012 |
| Heat content | 2000 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2003 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2004 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2005 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2006 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2009 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2010 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2011 | 84,000 btu / gal | USEPA 2012 |

Activity = Fuel combustion - Gasoline

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|----------------------------|----------|---------------------|---------------|
| Fuel combustion - Gasoline | 2000 | 0 gal | TSD General |
| Fuel combustion - Gasoline | 2001 | 0 gal | TSD General |
| Fuel combustion - Gasoline | 2002 | 0 gal | TSD General |
| Fuel combustion - Gasoline | 2003 | 0 gal | TSD General |
| Fuel combustion - Gasoline | 2004 | 0 gal | TSD General |
| Fuel combustion - Gasoline | 2005 | 0 gal | TSD General |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|----------------------------|------|-------------------|--|
| Fuel combustion - Gasoline | 2006 | 0 gal | TSD General |
| Fuel combustion - Gasoline | 2007 | 0 gal | TSD General |
| Fuel combustion - Gasoline | 2008 | 0 gal | TSD General |
| Fuel combustion - Gasoline | 2009 | 0 gal | ARB, 2012b |
| Fuel combustion - Gasoline | 2010 | 0 gal | ARB, 2012b |
| Fuel combustion - Gasoline | 2011 | 382,692 gal | Mandatory Reporting (used same % ethan |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.0709 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.0709 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.0711 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.0711 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.0713 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.0717 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.0713 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.0713 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.0713 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.0713 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA 2012 |
| Heat content | 2000 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2003 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2004 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2005 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2006 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2009 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2010 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2011 | 125,000 btu / gal | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

Activity = Fuel combustion - LPG

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-----------------------|----------|---------------------|---------------|
| Fuel combustion - LPG | 2000 | 87,078,096 gal | Schremp, 2008 |
| Fuel combustion - LPG | 2001 | 118,670,202 gal | Schremp, 2008 |
| Fuel combustion - LPG | 2002 | 47,484,276 gal | Schremp, 2008 |
| Fuel combustion - LPG | 2003 | 89,020,386 gal | Schremp, 2008 |
| Fuel combustion - LPG | 2004 | 68,164,740 gal | Schremp, 2008 |
| Fuel combustion - LPG | 2005 | 71,666,784 gal | Schremp, 2008 |
| Fuel combustion - LPG | 2006 | 42,615,720 gal | Schremp, 2008 |
| Fuel combustion - LPG | 2007 | 40,738,488 gal | Schremp, 2008 |
| Fuel combustion - LPG | 2008 | 42,381,360 gal | Schremp, 2008 |
| Fuel combustion - LPG | 2009 | 28,325 gal | ARB, 2012b |
| Fuel combustion - LPG | 2010 | 31,545 gal | ARB, 2012b |
| Fuel combustion - LPG | 2011 | 427,575 gal | ARB, 2012b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2009 | 8.750E-07 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2000 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.0628 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2010 | 0.063 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2011 | 0.063 g / btu | ARB, 2012b |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 8.765E-08 g / btu | ARB, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | ARB, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | ARB, 2012b |
| Heat content | 2000 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2003 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2004 | 92,000 btu / gal | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| Heat content | 2005 | 92,000 btu / gal | USEPA 2012 |
|---|----------|---------------------|-----------------------|
| Heat content | 2006 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2009 | 91,834 btu / gal | ARB, 2012b |
| Heat content | 2010 | 92,000 btu / gal | ARB, 2012b |
| Heat content | 2011 | 92,000 btu / gal | ARB, 2012b |
| Activity = Fuel combustion - Natural gas | | | |
| - Variable Name - | - Year - | - Value and Units - | - Reference - |
| Fuel combustion - Natural gas | 2000 | 57,998,792,704 scf | CEC PIIRA (Corrected) |
| Fuel combustion - Natural gas | 2001 | 53,049,547,253 scf | CEC PIIRA (Corrected) |
| Fuel combustion - Natural gas | 2002 | 58,430,697,815 scf | CEC PIIRA (Corrected) |
| Fuel combustion - Natural gas | 2003 | 58,820,318,307 scf | CEC PIIRA (Corrected) |
| Fuel combustion - Natural gas | 2004 | 59,408,194,499 scf | CEC PIIRA (Corrected) |
| Fuel combustion - Natural gas | 2005 | 60,591,085,336 scf | CEC PIIRA (Corrected) |
| Fuel combustion - Natural gas | 2006 | 62,170,070,452 scf | CEC PIIRA (Corrected) |
| Fuel combustion - Natural gas | 2007 | 64,525,492,732 scf | CEC PIIRA (Corrected) |
| Fuel combustion - Natural gas | 2008 | 65,764,111,900 scf | CEC PIIRA (Corrected) |
| Fuel combustion - Natural gas | 2009 | 66,941,987,808 scf | ARB, 2012b |
| Fuel combustion - Natural gas | 2010 | 73,651,940,450 scf | ARB, 2012b |
| Fuel combustion - Natural gas | 2011 | 59,208,667,145 scf | ARB, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 7.541E-07 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2010 | 5.103E-07 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2011 | 9.768E-07 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.0555 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2010 | 0.0509 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2011 | 0.0515 g / btu | ARB, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 9.105E-08 g / btu | ARB, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel N2O emission | 2010 | 6.226E-08 g / btu | ARB, 2012b |
| Fuel N2O emission | 2011 | 9.768E-08 g / btu | ARB, 2012b |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,018 btu / scf | ARB, 2012b |
| Heat content | 2010 | 1,019 btu / scf | ARB, 2012b |
| Heat content | 2011 | 1,012 btu / scf | ARB, 2012b |

Activity = Fuel combustion - Petroleum coke

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|----------------------------------|----------|---------------------|-----------------------------------|
| Fuel combustion - Petroleum coke | 2000 | 74,775 ton | Assume equal to 2009-2011 average |
| Fuel combustion - Petroleum coke | 2001 | 74,775 ton | Assume equal to 2009-2011 average |
| Fuel combustion - Petroleum coke | 2002 | 74,775 ton | Assume equal to 2009-2011 average |
| Fuel combustion - Petroleum coke | 2003 | 74,775 ton | Assume equal to 2009-2011 average |
| Fuel combustion - Petroleum coke | 2004 | 74,775 ton | Assume equal to 2009-2011 average |
| Fuel combustion - Petroleum coke | 2005 | 74,775 ton | Assume equal to 2009-2011 average |
| Fuel combustion - Petroleum coke | 2006 | 74,775 ton | Assume equal to 2009-2011 average |
| Fuel combustion - Petroleum coke | 2007 | 74,775 ton | Assume equal to 2009-2011 average |
| Fuel combustion - Petroleum coke | 2008 | 74,775 ton | Assume equal to 2009-2011 average |
| Fuel combustion - Petroleum coke | 2009 | 87,687 ton | ARB, 2012b |
| Fuel combustion - Petroleum coke | 2010 | 57,471 ton | ARB, 2012b |
| Fuel combustion - Petroleum coke | 2011 | 79,167 ton | ARB, 2012b |
| Fuel CH4 emission | 2000 | 1.100E-05 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2001 | 1.100E-05 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2002 | 1.100E-05 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2003 | 1.100E-05 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2004 | 1.100E-05 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2005 | 1.100E-05 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2006 | 1.100E-05 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2007 | 1.100E-05 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2008 | 1.100E-05 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2009 | 1.100E-05 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2010 | 1.100E-05 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2011 | 1.100E-05 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2000 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.102 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2010 | 0.102 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2011 | 0.102 g / btu | ARB, 2012b |
| Fuel N2O emission | 2000 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.600E-06 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|----------------------|------------|
| Fuel N2O emission | 2002 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.600E-06 g / btu | ARB, 2012b |
| Fuel N2O emission | 2010 | 1.600E-06 g / btu | ARB, 2012b |
| Fuel N2O emission | 2011 | 1.600E-06 g / btu | ARB, 2012b |
| Heat content | 2000 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2001 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2002 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2003 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2004 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2005 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2006 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2007 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2008 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2009 | 24,800,000 btu / ton | ARB, 2012b |
| Heat content | 2010 | 24,800,000 btu / ton | ARB, 2012b |
| Heat content | 2011 | 24,800,000 btu / ton | ARB, 2012b |

Activity = Fuel combustion - Process gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Process gas | 2000 | 35,709,079,774 scf | TSD General |
| Fuel combustion - Process gas | 2001 | 36,520,016,675 scf | TSD General |
| Fuel combustion - Process gas | 2002 | 36,765,370,730 scf | TSD General |
| Fuel combustion - Process gas | 2003 | 37,520,224,622 scf | TSD General |
| Fuel combustion - Process gas | 2004 | 36,472,351,429 scf | TSD General |
| Fuel combustion - Process gas | 2005 | 37,684,535,891 scf | TSD General |
| Fuel combustion - Process gas | 2006 | 38,556,346,967 scf | TSD General |
| Fuel combustion - Process gas | 2007 | 38,201,674,415 scf | TSD General |
| Fuel combustion - Process gas | 2008 | 37,695,039,317 scf | TSD General |
| Fuel combustion - Process gas | 2009 | 35,001,832,503 scf | ARB, 2012b |
| Fuel combustion - Process gas | 2010 | 14,115,320,905 scf | ARB, 2012b |
| Fuel combustion - Process gas | 2011 | 614,888,765 scf | ARB, 2012b |
| Fuel CH4 emission | 2000 | 3.852E-07 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2001 | 3.852E-07 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2002 | 3.852E-07 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2003 | 3.852E-07 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2004 | 3.852E-07 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2005 | 3.852E-07 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2006 | 3.852E-07 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2007 | 3.852E-07 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2008 | 3.852E-07 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2009 | 3.852E-07 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2010 | 4.772E-08 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2011 | 1.925E-05 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2000 | 0.0177 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2001 | 0.0177 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2002 | 0.0177 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2003 | 0.0177 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2004 | 0.0177 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2005 | 0.0177 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2006 | 0.0177 g / btu | ARB, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CO2 emission | 2007 | 0.0177 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2008 | 0.0177 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2009 | 0.0177 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2010 | 0.0465 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2011 | 5.900E-03 g / btu | ARB, 2012b |
| Fuel N2O emission | 2000 | 5.419E-08 g / btu | ARB, 2012b |
| Fuel N2O emission | 2001 | 5.419E-08 g / btu | ARB, 2012b |
| Fuel N2O emission | 2002 | 5.419E-08 g / btu | ARB, 2012b |
| Fuel N2O emission | 2003 | 5.419E-08 g / btu | ARB, 2012b |
| Fuel N2O emission | 2004 | 5.419E-08 g / btu | ARB, 2012b |
| Fuel N2O emission | 2005 | 5.419E-08 g / btu | ARB, 2012b |
| Fuel N2O emission | 2006 | 5.419E-08 g / btu | ARB, 2012b |
| Fuel N2O emission | 2007 | 5.419E-08 g / btu | ARB, 2012b |
| Fuel N2O emission | 2008 | 5.419E-08 g / btu | ARB, 2012b |
| Fuel N2O emission | 2009 | 5.419E-08 g / btu | ARB, 2012b |
| Fuel N2O emission | 2010 | 1.581E-08 g / btu | ARB, 2012b |
| Fuel N2O emission | 2011 | 2.136E-06 g / btu | ARB, 2012b |
| Heat content | 2000 | 529 btu / scf | ARB, 2012b |
| Heat content | 2001 | 529 btu / scf | ARB, 2012b |
| Heat content | 2002 | 529 btu / scf | ARB, 2012b |
| Heat content | 2003 | 529 btu / scf | ARB, 2012b |
| Heat content | 2004 | 529 btu / scf | ARB, 2012b |
| Heat content | 2005 | 529 btu / scf | ARB, 2012b |
| Heat content | 2006 | 529 btu / scf | ARB, 2012b |
| Heat content | 2007 | 529 btu / scf | ARB, 2012b |
| Heat content | 2008 | 529 btu / scf | ARB, 2012b |
| Heat content | 2009 | 529 btu / scf | ARB, 2012b |
| Heat content | 2010 | 475 btu / scf | ARB, 2012b |
| Heat content | 2011 | 529 btu / scf | ARB, 2012b |

Activity = Fuel combustion - Refinery gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|--------------------------------|----------|---------------------|---------------|
| Fuel combustion - Refinery gas | 2000 | 231,367,943,247 scf | Schremp, 2008 |
| Fuel combustion - Refinery gas | 2001 | 238,444,383,499 scf | Schremp, 2008 |
| Fuel combustion - Refinery gas | 2002 | 241,022,467,511 scf | Schremp, 2008 |
| Fuel combustion - Refinery gas | 2003 | 244,373,562,470 scf | Schremp, 2008 |
| Fuel combustion - Refinery gas | 2004 | 233,343,796,721 scf | Schremp, 2008 |
| Fuel combustion - Refinery gas | 2005 | 240,186,039,613 scf | Schremp, 2008 |
| Fuel combustion - Refinery gas | 2006 | 236,158,490,351 scf | Schremp, 2008 |
| Fuel combustion - Refinery gas | 2007 | 232,923,188,133 scf | Schremp, 2008 |
| Fuel combustion - Refinery gas | 2008 | 227,934,731,989 scf | Schremp, 2008 |
| Fuel combustion - Refinery gas | 2009 | 263,027,692,333 scf | ARB, 2012b |
| Fuel combustion - Refinery gas | 2010 | 302,155,199,470 scf | ARB, 2012b |
| Fuel combustion - Refinery gas | 2011 | 225,032,026,914 scf | ARB, 2012b |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2009 | 2.143E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2010 | 8.806E-07 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2011 | 2.831E-06 g / btu | ARB, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel CO2 emission | 2000 | 0.059 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.059 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.059 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.059 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.059 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.059 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.059 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.059 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.059 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.0604 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2010 | 0.0555 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2011 | 0.0536 g / btu | ARB, 2012b |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 2.431E-07 g / btu | ARB, 2012b |
| Fuel N2O emission | 2010 | 1.034E-07 g / btu | ARB, 2012b |
| Fuel N2O emission | 2011 | 5.650E-07 g / btu | ARB, 2012b |
| Heat content | 2000 | 1,100 btu / scf | TSD General |
| Heat content | 2001 | 1,100 btu / scf | TSD General |
| Heat content | 2002 | 1,100 btu / scf | TSD General |
| Heat content | 2003 | 1,100 btu / scf | TSD General |
| Heat content | 2004 | 1,100 btu / scf | TSD General |
| Heat content | 2005 | 1,100 btu / scf | TSD General |
| Heat content | 2006 | 1,100 btu / scf | TSD General |
| Heat content | 2007 | 1,100 btu / scf | TSD General |
| Heat content | 2008 | 1,100 btu / scf | TSD General |
| Heat content | 2009 | 902 btu / scf | ARB, 2012b |
| Heat content | 2010 | 995 btu / scf | ARB, 2012b |
| Heat content | 2011 | 1,288 btu / scf | ARB, 2012b |

Activity = Fuel combustion - Residual fuel oil

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------------|-----------------|----------------------------|----------------------|
| Fuel combustion - Residual fuel oil | 2000 | 160,440 gal | Schremp, 2008 |
| Fuel combustion - Residual fuel oil | 2001 | 0 gal | Schremp, 2008 |
| Fuel combustion - Residual fuel oil | 2002 | 0 gal | Schremp, 2008 |
| Fuel combustion - Residual fuel oil | 2003 | 0 gal | Schremp, 2008 |
| Fuel combustion - Residual fuel oil | 2004 | 0 gal | Schremp, 2008 |
| Fuel combustion - Residual fuel oil | 2005 | 0 gal | Schremp, 2008 |
| Fuel combustion - Residual fuel oil | 2006 | 0 gal | Schremp, 2008 |
| Fuel combustion - Residual fuel oil | 2007 | 0 gal | Schremp, 2008 |
| Fuel combustion - Residual fuel oil | 2008 | 0 gal | Schremp, 2008 |
| Fuel combustion - Residual fuel oil | 2009 | 0 gal | ARB, 2012b |
| Fuel combustion - Residual fuel oil | 2010 | 0 gal | ARB, 2012b |
| Fuel combustion - Residual fuel oil | 2011 | 0 gal | ARB, 2012b |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.0751 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA 2012 |
| Heat content | 2000 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2003 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2004 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2005 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2006 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2009 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2010 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2011 | 150,000 btu / gal | USEPA 2012 |

IPCC category = 1A2 — Fuel Combustion Activities - Manufacturing Industries and Construction

► Sector = Manufacturing : Primary Metals

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 13,324,252,224 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1991 | 10,459,898,081 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1992 | 6,820,557,880 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1993 | 9,022,915,334 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1994 | 11,728,537,606 scf | Gough, 2013 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------------------|------|--------------------|-------------|
| Fuel combustion - Natural gas | 1995 | 10,716,486,546 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1996 | 11,210,200,760 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1997 | 13,184,462,341 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1998 | 13,257,109,704 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1999 | 14,689,981,612 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2000 | 15,742,473,832 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2001 | 14,467,050,065 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2002 | 16,728,803,249 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2003 | 13,956,610,911 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2004 | 13,373,465,101 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2005 | 11,088,976,279 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2006 | 8,282,162,800 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2007 | 9,532,611,361 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2008 | 9,734,142,400 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2009 | 6,476,127,129 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2010 | 8,426,813,216 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2011 | 9,106,854,657 scf | Gough, 2013 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

IPCC category = 1A2c — Fuel Combustion Activities - Manufacturing Industries and Construction - Chemicals

► Sector = Manufacturing : Chemicals & Allied Products : Fuel Use

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 45,031,140,339 scf | Gough, 2013 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------------------|------|---------------------|-------------|
| Fuel combustion - Natural gas | 1991 | 32,317,160,310 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1992 | 23,408,962,173 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1993 | 32,751,558,818 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1994 | 40,495,518,956 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1995 | 48,461,041,158 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1996 | 89,514,585,818 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1997 | 56,007,307,998 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1998 | 86,136,763,033 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1999 | 81,987,162,872 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2000 | 89,594,214,808 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2001 | 75,690,326,592 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2002 | 73,416,852,494 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2003 | 47,998,905,220 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2004 | 59,396,604,896 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2005 | 70,153,385,628 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2006 | 69,725,778,245 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2007 | 57,257,446,684 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2008 | 71,555,503,710 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2009 | 70,020,016,908 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2010 | 98,924,666,790 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2011 | 116,818,883,406 scf | Gough, 2013 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

IPCC category = 1A2d — Fuel Combustion Activities - Manufacturing Industries and Construction - Pulp, Paper and Print**► Sector = Manufacturing : Printing & Publishing****Activity = Fuel combustion - Natural gas**

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|-----------------|----------------------------|----------------------|
| Fuel combustion - Natural gas | 1990 | 1,459,931,100 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1991 | 1,374,726,787 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1992 | 1,165,205,621 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1993 | 1,459,887,816 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1994 | 1,703,820,172 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1995 | 1,955,278,257 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1996 | 2,025,413,845 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1997 | 2,433,863,611 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1998 | 2,417,842,727 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1999 | 2,585,448,925 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2000 | 2,493,909,006 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2001 | 1,928,356,639 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2002 | 2,011,318,800 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2003 | 1,616,482,984 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2004 | 1,650,381,776 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2005 | 1,499,078,467 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2006 | 1,396,185,088 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2007 | 1,369,240,647 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2008 | 1,235,634,516 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2009 | 1,135,338,926 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2010 | 1,005,979,664 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2011 | 1,062,711,912 scf | Gough, 2013 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|-----------------|------------|
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Manufacturing : Pulp & Paper

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 23,002,747,920 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1991 | 17,590,592,977 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1992 | 12,182,403,682 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1993 | 16,179,784,087 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1994 | 24,027,073,618 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1995 | 21,974,590,071 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1996 | 20,546,111,704 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1997 | 16,999,404,427 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1998 | 17,453,628,246 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1999 | 18,188,981,067 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2000 | 18,202,926,109 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2001 | 15,587,704,731 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2002 | 16,570,845,515 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2003 | 15,323,750,882 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2004 | 15,718,109,356 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2005 | 9,955,724,102 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2006 | 10,410,737,797 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2007 | 8,713,430,233 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2008 | 7,139,617,376 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2009 | 6,119,634,661 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2010 | 6,446,738,718 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2011 | 7,134,990,002 scf | Gough, 2013 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|-----------------|------------|
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

IPCC category = 1A2e — Fuel Combustion Activities - Manufacturing Industries and Construction - Food Processing, Beverages and Tobacco

► Sector = Manufacturing : Food Products

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 4,462,259,348 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1991 | 3,640,599,532 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1992 | 2,564,550,653 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1993 | 4,547,758,825 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1994 | 5,656,935,043 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1995 | 4,846,280,090 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1996 | 4,237,546,083 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1997 | 4,849,631,531 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1998 | 5,358,894,427 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1999 | 5,324,657,744 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2000 | 5,658,019,002 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2001 | 8,209,002,023 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2002 | 8,629,367,070 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2003 | 6,933,828,391 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2004 | 4,679,365,488 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2005 | 4,602,376,622 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2006 | 5,647,206,819 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2007 | 5,047,198,421 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2008 | 4,509,038,097 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2009 | 4,374,795,276 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2010 | 4,984,468,527 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2011 | 4,516,912,389 scf | Gough, 2013 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|-----------------|------------|
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Manufacturing : Food Products : Food Processing

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 53,384,513,432 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1991 | 53,646,566,138 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1992 | 49,037,921,122 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1993 | 54,915,161,246 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1994 | 55,315,906,163 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1995 | 52,156,899,878 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1996 | 50,786,585,393 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1997 | 54,750,509,962 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1998 | 53,504,754,703 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1999 | 61,677,616,884 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2000 | 63,768,903,028 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2001 | 53,521,850,592 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2002 | 57,852,095,630 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2003 | 46,553,896,585 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2004 | 45,670,472,473 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2005 | 44,102,790,443 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2006 | 52,863,709,409 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2007 | 53,803,409,253 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2008 | 52,336,351,376 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2009 | 51,768,047,756 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2010 | 50,580,048,005 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2011 | 52,530,549,244 scf | Gough, 2013 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|-----------------|------------|
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Manufacturing : Food Products : Sugar & Confections

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 9,740,440,350 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1991 | 9,296,957,659 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1992 | 6,906,542,879 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1993 | 8,002,221,613 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1994 | 9,300,172,210 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1995 | 8,649,183,099 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1996 | 5,012,274,252 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1997 | 5,195,522,430 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1998 | 7,568,622,818 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1999 | 6,744,672,109 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2000 | 7,303,294,937 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2001 | 3,343,060,926 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2002 | 3,818,391,802 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2003 | 4,086,618,120 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2004 | 7,982,227,547 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2005 | 6,995,692,126 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2006 | 2,470,591,567 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2007 | 2,012,342,855 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2008 | 1,365,808,630 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2009 | 1,097,849,541 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2010 | 1,235,728,634 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2011 | 1,322,519,526 scf | Gough, 2013 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|-----------------|------------|
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Manufacturing : Tobacco

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 378,608 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1991 | 256,520 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1992 | 188,390 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1993 | 208,548 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1994 | 207,938 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1995 | 126,575 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1996 | 135,234 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1997 | 150,300 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1998 | 235,159 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1999 | 274,069 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2000 | 147,823 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2001 | 432,639 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2002 | 226,668 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2003 | 474,346 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2004 | 323,217 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2005 | 818,336 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2006 | 86,536 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2007 | 95,351 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2008 | 99,688 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2009 | 84,324 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2010 | 145,766 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2011 | 163,167 scf | Gough, 2013 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|-----------------|------------|
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

IPCC category = 1A2f — Fuel Combustion Activities - Manufacturing Industries and Construction - Non-Metallic Minerals

► Sector = Manufacturing : Stone, Clay, Glass & Cement

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 13,652,647,621 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1991 | 10,651,609,444 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1992 | 8,877,303,449 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1993 | 9,249,582,794 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1994 | 10,042,636,562 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1995 | 11,508,430,876 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1996 | 11,552,737,478 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1997 | 14,045,354,193 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1998 | 15,167,338,400 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1999 | 14,603,121,799 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2000 | 14,248,032,978 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2001 | 9,045,330,372 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2002 | 9,846,934,514 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2003 | 7,118,348,410 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2004 | 6,844,359,848 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2005 | 7,025,620,582 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2006 | 14,238,363,201 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2007 | 12,383,167,476 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2008 | 9,175,086,824 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2009 | 6,195,327,764 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2010 | 5,543,371,400 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2011 | 5,590,489,545 scf | Gough, 2013 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Manufacturing : Stone, Clay, Glass & Cement : Cement

Activity = Fuel combustion - Biomass waste fuel

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|--------------------------------------|----------|---------------------|---------------|
| Fuel combustion - Biomass waste fuel | 1990 | 0 ton | O'Hare, 2007 |
| Fuel combustion - Biomass waste fuel | 1991 | 8,507 ton | Interpolated |
| Fuel combustion - Biomass waste fuel | 1992 | 17,013 ton | Interpolated |
| Fuel combustion - Biomass waste fuel | 1993 | 25,520 ton | Interpolated |
| Fuel combustion - Biomass waste fuel | 1994 | 34,026 ton | Interpolated |
| Fuel combustion - Biomass waste fuel | 1995 | 42,533 ton | O'Hare, 2007 |
| Fuel combustion - Biomass waste fuel | 1996 | 39,735 ton | Interpolated |
| Fuel combustion - Biomass waste fuel | 1997 | 36,938 ton | Interpolated |
| Fuel combustion - Biomass waste fuel | 1998 | 34,140 ton | Interpolated |
| Fuel combustion - Biomass waste fuel | 1999 | 31,343 ton | Interpolated |
| Fuel combustion - Biomass waste fuel | 2000 | 28,545 ton | O'Hare, 2007 |
| Fuel combustion - Biomass waste fuel | 2001 | 27,874 ton | Interpolated |
| Fuel combustion - Biomass waste fuel | 2002 | 27,204 ton | Interpolated |
| Fuel combustion - Biomass waste fuel | 2003 | 26,533 ton | Interpolated |
| Fuel combustion - Biomass waste fuel | 2004 | 25,862 ton | Interpolated |
| Fuel combustion - Biomass waste fuel | 2005 | 25,192 ton | O'Hare, 2007 |
| Fuel combustion - Biomass waste fuel | 2006 | 9,307 ton | ARB, 2008 |
| Fuel combustion - Biomass waste fuel | 2007 | 13,880 ton | Interpolated |
| Fuel combustion - Biomass waste fuel | 2008 | 18,453 ton | ARB, 2012b |
| Fuel combustion - Biomass waste fuel | 2009 | 27,685 ton | ARB, 2012b |
| Fuel combustion - Biomass waste fuel | 2010 | 32,458 ton | ARB, 2012b |
| Fuel combustion - Biomass waste fuel | 2011 | 94,273 ton | ARB, 2012b |
| Fuel CH4 emission | 1990 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 3.200E-05 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CH4 emission | 1995 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 3.000E-05 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2009 | 2.449E-05 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2010 | 2.989E-05 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2011 | 3.200E-05 g / btu | ARB, 2012b |
| Fuel CO2 emission | 1990 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.0938 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2009 | 0.0986 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2010 | 0.0965 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2011 | 0.0695 g / btu | ARB, 2012b |
| Fuel N2O emission | 1990 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 4.200E-06 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|----------------------|------------|
| Fuel N2O emission | 2007 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 4.000E-06 g / btu | ARB, 2012b |
| Fuel N2O emission | 2009 | 3.295E-06 g / btu | ARB, 2012b |
| Fuel N2O emission | 2010 | 3.968E-06 g / btu | ARB, 2012b |
| Fuel N2O emission | 2011 | 4.200E-06 g / btu | ARB, 2012b |
| Heat content | 1990 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1991 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1992 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1993 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1994 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1995 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1996 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1997 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1998 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1999 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2000 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2001 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2002 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2003 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2004 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2005 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2006 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2007 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2008 | 15,656,195 btu / ton | ARB, 2012b |
| Heat content | 2009 | 14,767,911 btu / ton | ARB, 2012b |
| Heat content | 2010 | 19,755,104 btu / ton | ARB, 2012b |
| Heat content | 2011 | 8,250,000 btu / ton | ARB, 2012b |

Activity = Fuel combustion - Coal

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|------------------------|----------|---------------------|---------------|
| Fuel combustion - Coal | 1990 | 1,362,675 ton | O'Hare, 2007 |
| Fuel combustion - Coal | 1991 | 1,304,045 ton | Interpolated |
| Fuel combustion - Coal | 1992 | 1,245,415 ton | Interpolated |
| Fuel combustion - Coal | 1993 | 1,186,785 ton | Interpolated |
| Fuel combustion - Coal | 1994 | 1,128,155 ton | Interpolated |
| Fuel combustion - Coal | 1995 | 1,069,525 ton | O'Hare, 2007 |
| Fuel combustion - Coal | 1996 | 1,120,726 ton | Interpolated |
| Fuel combustion - Coal | 1997 | 1,171,927 ton | Interpolated |
| Fuel combustion - Coal | 1998 | 1,223,129 ton | Interpolated |
| Fuel combustion - Coal | 1999 | 1,274,330 ton | Interpolated |
| Fuel combustion - Coal | 2000 | 1,325,531 ton | O'Hare, 2007 |
| Fuel combustion - Coal | 2001 | 1,317,696 ton | Interpolated |
| Fuel combustion - Coal | 2002 | 1,309,862 ton | Interpolated |
| Fuel combustion - Coal | 2003 | 1,302,027 ton | Interpolated |
| Fuel combustion - Coal | 2004 | 1,294,192 ton | Interpolated |
| Fuel combustion - Coal | 2005 | 1,286,357 ton | O'Hare, 2007 |
| Fuel combustion - Coal | 2006 | 1,214,202 ton | ARB, 2008 |
| Fuel combustion - Coal | 2007 | 1,091,928 ton | Interpolated |
| Fuel combustion - Coal | 2008 | 969,655 ton | ARB, 2012b |
| Fuel combustion - Coal | 2009 | 624,284 ton | ARB, 2012b |
| Fuel combustion - Coal | 2010 | 617,888 ton | ARB, 2012b |
| Fuel combustion - Coal | 2011 | 663,791 ton | ARB, 2012b |
| Fuel CH4 emission | 1990 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.100E-05 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CH4 emission | 1994 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.000E-05 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2009 | 9.502E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2010 | 9.834E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2011 | 1.100E-05 g / btu | ARB, 2012b |
| Fuel CO2 emission | 1990 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.0969 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2009 | 0.0917 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2010 | 0.0944 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2011 | 0.0884 g / btu | ARB, 2012b |
| Fuel N2O emission | 1990 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.600E-06 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|----------------------|------------|
| Fuel N2O emission | 2006 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.490E-06 g / btu | ARB, 2012b |
| Fuel N2O emission | 2009 | 1.403E-06 g / btu | ARB, 2012b |
| Fuel N2O emission | 2010 | 1.450E-06 g / btu | ARB, 2012b |
| Fuel N2O emission | 2011 | 1.600E-06 g / btu | ARB, 2012b |
| Heat content | 1990 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1991 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1992 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1993 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1994 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1995 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1996 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1997 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1998 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1999 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2000 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2001 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2002 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2003 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2004 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2005 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2006 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2007 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2008 | 24,301,434 btu / ton | ARB, 2012b |
| Heat content | 2009 | 25,014,603 btu / ton | ARB, 2012b |
| Heat content | 2010 | 24,411,360 btu / ton | ARB, 2012b |
| Heat content | 2011 | 25,090,000 btu / ton | ARB, 2012b |

Activity = Fuel combustion - Distillate

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|------------------------------|----------|---------------------|---------------|
| Fuel combustion - Distillate | 1990 | 83,472 gal | O'Hare, 2007 |
| Fuel combustion - Distillate | 1991 | 107,169 gal | Interpolated |
| Fuel combustion - Distillate | 1992 | 130,867 gal | Interpolated |
| Fuel combustion - Distillate | 1993 | 154,564 gal | Interpolated |
| Fuel combustion - Distillate | 1994 | 178,261 gal | Interpolated |
| Fuel combustion - Distillate | 1995 | 201,959 gal | O'Hare, 2007 |
| Fuel combustion - Distillate | 1996 | 256,544 gal | Interpolated |
| Fuel combustion - Distillate | 1997 | 311,129 gal | Interpolated |
| Fuel combustion - Distillate | 1998 | 365,714 gal | Interpolated |
| Fuel combustion - Distillate | 1999 | 420,299 gal | Interpolated |
| Fuel combustion - Distillate | 2000 | 474,885 gal | O'Hare, 2007 |
| Fuel combustion - Distillate | 2001 | 395,977 gal | Interpolated |
| Fuel combustion - Distillate | 2002 | 317,069 gal | Interpolated |
| Fuel combustion - Distillate | 2003 | 238,161 gal | Interpolated |
| Fuel combustion - Distillate | 2004 | 159,254 gal | Interpolated |
| Fuel combustion - Distillate | 2005 | 80,346 gal | O'Hare, 2007 |
| Fuel combustion - Distillate | 2006 | 80,437 gal | ARB, 2008 |
| Fuel combustion - Distillate | 2007 | 78,505 gal | Interpolated |
| Fuel combustion - Distillate | 2008 | 76,573 gal | ARB, 2012b |
| Fuel combustion - Distillate | 2009 | 1,460 gal | ARB, 2012b |
| Fuel combustion - Distillate | 2010 | 30,000 gal | ARB, 2012b |
| Fuel combustion - Distillate | 2011 | 0 gal | ARB, 2012b |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2009 | 4.939E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.0731 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2009 | 0.0691 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2010 | 0.0731 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2011 | 0.074 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | ARB, 2012b |
| Fuel N2O emission | 2009 | 4.939E-07 g / btu | ARB, 2012b |
| Fuel N2O emission | 2010 | 5.999E-07 g / btu | ARB, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1991 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1992 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1993 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1994 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1995 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1996 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1997 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1998 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1999 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2000 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2003 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2004 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2005 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2006 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 138,690 btu / gal | ARB, 2012b |
| Heat content | 2009 | 138,690 btu / gal | ARB, 2012b |
| Heat content | 2010 | 138,690 btu / gal | ARB, 2012b |
| Heat content | 2011 | 138,000 btu / gal | USEPA 2012 |

Activity = Fuel combustion - Fossil waste fuel

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------------|----------|---------------------|---------------|
| Fuel combustion - Fossil waste fuel | 1990 | 23,403 ton | O'Hare, 2007 |
| Fuel combustion - Fossil waste fuel | 1991 | 22,521 ton | Interpolated |
| Fuel combustion - Fossil waste fuel | 1992 | 21,639 ton | Interpolated |
| Fuel combustion - Fossil waste fuel | 1993 | 20,757 ton | Interpolated |
| Fuel combustion - Fossil waste fuel | 1994 | 19,875 ton | Interpolated |
| Fuel combustion - Fossil waste fuel | 1995 | 18,993 ton | O'Hare, 2007 |
| Fuel combustion - Fossil waste fuel | 1996 | 15,194 ton | Interpolated |
| Fuel combustion - Fossil waste fuel | 1997 | 11,396 ton | Interpolated |
| Fuel combustion - Fossil waste fuel | 1998 | 7,597 ton | Interpolated |
| Fuel combustion - Fossil waste fuel | 1999 | 3,799 ton | Interpolated |
| Fuel combustion - Fossil waste fuel | 2000 | 0 ton | O'Hare, 2007 |
| Fuel combustion - Fossil waste fuel | 2001 | 0 ton | Interpolated |
| Fuel combustion - Fossil waste fuel | 2002 | 0 ton | Interpolated |
| Fuel combustion - Fossil waste fuel | 2003 | 0 ton | Interpolated |
| Fuel combustion - Fossil waste fuel | 2004 | 0 ton | Interpolated |
| Fuel combustion - Fossil waste fuel | 2005 | 0 ton | O'Hare, 2007 |
| Fuel combustion - Fossil waste fuel | 2006 | 0 ton | ARB, 2008 |
| Fuel combustion - Fossil waste fuel | 2007 | 0 ton | Interpolated |
| Fuel combustion - Fossil waste fuel | 2008 | 0 ton | ARB, 2012b |
| Fuel combustion - Fossil waste fuel | 2009 | 0 ton | ARB, 2012b |
| Fuel combustion - Fossil waste fuel | 2010 | 0 ton | ARB, 2012b |
| Fuel combustion - Fossil waste fuel | 2011 | 0 ton | ARB, 2012b |
| Fuel CH4 emission | 1990 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 3.200E-05 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|--------------|
| Fuel CH4 emission | 1992 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 1991 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 1992 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 1993 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 1994 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 1995 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 1996 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 1997 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 1998 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 1999 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 2000 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 2001 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 2002 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 2003 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 2004 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 2005 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 2006 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 2007 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 2008 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 2009 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 2010 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel CO2 emission | 2011 | 0.0812 g / btu | O'Hare, 2007 |
| Fuel N2O emission | 1990 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 4.200E-06 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|----------------------|-----------------|
| Fuel N2O emission | 2004 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 4.200E-06 g / btu | USEPA 2012 |
| Heat content | 1990 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 1991 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 1992 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 1993 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 1994 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 1995 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 1996 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 1997 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 1998 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 1999 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 2000 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 2001 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 2002 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 2003 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 2004 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 2005 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 2006 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 2007 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 2008 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 2009 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 2010 | 20,090,000 btu / ton | Fossil Waste HC |
| Heat content | 2011 | 20,090,000 btu / ton | Fossil Waste HC |

Activity = Fuel combustion - LPG

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-----------------------|----------|---------------------|---------------|
| Fuel combustion - LPG | 1990 | 0 gal | O'Hare, 2007 |
| Fuel combustion - LPG | 1991 | 0 gal | Interpolated |
| Fuel combustion - LPG | 1992 | 0 gal | Interpolated |
| Fuel combustion - LPG | 1993 | 0 gal | Interpolated |
| Fuel combustion - LPG | 1994 | 0 gal | Interpolated |
| Fuel combustion - LPG | 1995 | 0 gal | O'Hare, 2007 |
| Fuel combustion - LPG | 1996 | 0 gal | Interpolated |
| Fuel combustion - LPG | 1997 | 0 gal | Interpolated |
| Fuel combustion - LPG | 1998 | 0 gal | Interpolated |
| Fuel combustion - LPG | 1999 | 0 gal | Interpolated |
| Fuel combustion - LPG | 2000 | 0 gal | O'Hare, 2007 |
| Fuel combustion - LPG | 2001 | 0 gal | Interpolated |
| Fuel combustion - LPG | 2002 | 0 gal | Interpolated |
| Fuel combustion - LPG | 2003 | 0 gal | Interpolated |
| Fuel combustion - LPG | 2004 | 0 gal | Interpolated |
| Fuel combustion - LPG | 2005 | 0 gal | O'Hare, 2007 |
| Fuel combustion - LPG | 2006 | 0 gal | ARB, 2008 |
| Fuel combustion - LPG | 2007 | 0 gal | Interpolated |
| Fuel combustion - LPG | 2008 | 0 gal | ARB, 2012b |
| Fuel combustion - LPG | 2009 | 4,898 gal | ARB, 2012b |
| Fuel combustion - LPG | 2010 | 4,165 gal | ARB, 2012b |
| Fuel combustion - LPG | 2011 | 7,782 gal | ARB, 2012b |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 8.970E-07 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | ARB, 2012b |
| Fuel CO2 emission | 1990 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.063 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2010 | 0.063 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2011 | 0.063 g / btu | ARB, 2012b |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 8.970E-08 g / btu | ARB, 2012b |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | ARB, 2012b |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | ARB, 2012b |
| Heat content | 1990 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1991 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1992 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1993 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1994 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1995 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1996 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1997 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1998 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1999 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2000 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2003 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2004 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2005 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2006 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2009 | 91,048 btu / gal | ARB, 2012b |
| Heat content | 2010 | 92,000 btu / gal | ARB, 2012b |
| Heat content | 2011 | 92,000 btu / gal | ARB, 2012b |

Activity = Fuel combustion - MSW

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-----------------------|----------|---------------------|---------------|
| Fuel combustion - MSW | 1990 | 0 ton | O'Hare, 2007 |
| Fuel combustion - MSW | 1991 | 0 ton | Interpolated |
| Fuel combustion - MSW | 1992 | 0 ton | Interpolated |
| Fuel combustion - MSW | 1993 | 0 ton | Interpolated |
| Fuel combustion - MSW | 1994 | 0 ton | Interpolated |
| Fuel combustion - MSW | 1995 | 0 ton | O'Hare, 2007 |
| Fuel combustion - MSW | 1996 | 0 ton | Interpolated |
| Fuel combustion - MSW | 1997 | 0 ton | Interpolated |
| Fuel combustion - MSW | 1998 | 0 ton | Interpolated |
| Fuel combustion - MSW | 1999 | 0 ton | Interpolated |
| Fuel combustion - MSW | 2000 | 0 ton | O'Hare, 2007 |
| Fuel combustion - MSW | 2001 | 0 ton | Interpolated |
| Fuel combustion - MSW | 2002 | 0 ton | Interpolated |
| Fuel combustion - MSW | 2003 | 0 ton | Interpolated |
| Fuel combustion - MSW | 2004 | 0 ton | Interpolated |
| Fuel combustion - MSW | 2005 | 0 ton | O'Hare, 2007 |
| Fuel combustion - MSW | 2006 | 0 ton | ARB, 2008 |
| Fuel combustion - MSW | 2007 | 0 ton | Interpolated |
| Fuel combustion - MSW | 2008 | 0 ton | ARB, 2012b |
| Fuel combustion - MSW | 2009 | 0 ton | ARB, 2012b |
| Fuel combustion - MSW | 2010 | 0 ton | ARB, 2012b |
| Fuel combustion - MSW | 2011 | 3,263 ton | ARB, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CH4 emission | 1990 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.920E-05 g / btu | ARB, 2012b |
| Fuel CO2 emission | 1990 | 0.0907 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.0907 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.0907 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.0907 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.0907 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.0907 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.0907 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.0907 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.0907 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.0907 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.0907 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.0907 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.0907 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.0907 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.0907 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.0907 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.0907 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.0907 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.0907 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.0907 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.0907 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.0252 g / btu | ARB, 2012b |
| Fuel N2O emission | 1990 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 4.200E-06 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------------------|------|---------------------|------------|
| Fuel N2O emission | 2002 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 2.520E-06 g / btu | ARB, 2012b |
| Heat content | 1990 | 9,950,000 btu / ton | USEPA 2012 |
| Heat content | 1991 | 9,950,000 btu / ton | USEPA 2012 |
| Heat content | 1992 | 9,950,000 btu / ton | USEPA 2012 |
| Heat content | 1993 | 9,950,000 btu / ton | USEPA 2012 |
| Heat content | 1994 | 9,950,000 btu / ton | USEPA 2012 |
| Heat content | 1995 | 9,950,000 btu / ton | USEPA 2012 |
| Heat content | 1996 | 9,950,000 btu / ton | USEPA 2012 |
| Heat content | 1997 | 9,950,000 btu / ton | USEPA 2012 |
| Heat content | 1998 | 9,950,000 btu / ton | USEPA 2012 |
| Heat content | 1999 | 9,950,000 btu / ton | USEPA 2012 |
| Heat content | 2000 | 9,950,000 btu / ton | USEPA 2012 |
| Heat content | 2001 | 9,950,000 btu / ton | USEPA 2012 |
| Heat content | 2002 | 9,950,000 btu / ton | USEPA 2012 |
| Heat content | 2003 | 9,950,000 btu / ton | USEPA 2012 |
| Heat content | 2004 | 9,950,000 btu / ton | USEPA 2012 |
| Heat content | 2005 | 9,950,000 btu / ton | USEPA 2012 |
| Heat content | 2006 | 9,950,000 btu / ton | USEPA 2012 |
| Heat content | 2007 | 9,950,000 btu / ton | USEPA 2012 |
| Heat content | 2008 | 9,950,000 btu / ton | USEPA 2012 |
| Heat content | 2009 | 9,950,000 btu / ton | USEPA 2012 |
| Heat content | 2010 | 9,950,000 btu / ton | USEPA 2012 |
| Heat content | 2011 | 9,950,000 btu / ton | ARB, 2012b |
| Proportion of renewables | 1990 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 1991 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 1992 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 1993 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 1994 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 1995 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 1996 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 1997 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 1998 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 1999 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 2000 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 2001 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 2002 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 2003 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 2004 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 2005 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 2006 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 2007 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 2008 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 2009 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 2010 | 0.655 | Hahn, 2007 |
| Proportion of renewables | 2011 | 0.594 | ARB, 2012b |

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|-----------------|----------------------------|----------------------|
| Fuel combustion - Natural gas | 1990 | 2,815,941,480 scf | O'Hare, 2007 |
| Fuel combustion - Natural gas | 1991 | 2,974,446,436 scf | Interpolated |
| Fuel combustion - Natural gas | 1992 | 3,132,951,393 scf | Interpolated |
| Fuel combustion - Natural gas | 1993 | 3,291,456,349 scf | Interpolated |
| Fuel combustion - Natural gas | 1994 | 3,449,961,305 scf | Interpolated |
| Fuel combustion - Natural gas | 1995 | 3,608,466,261 scf | O'Hare, 2007 |
| Fuel combustion - Natural gas | 1996 | 3,391,537,238 scf | Interpolated |
| Fuel combustion - Natural gas | 1997 | 3,174,608,215 scf | Interpolated |
| Fuel combustion - Natural gas | 1998 | 2,957,679,192 scf | Interpolated |
| Fuel combustion - Natural gas | 1999 | 2,740,750,169 scf | Interpolated |
| Fuel combustion - Natural gas | 2000 | 2,523,821,146 scf | O'Hare, 2007 |
| Fuel combustion - Natural gas | 2001 | 2,672,315,027 scf | Interpolated |
| Fuel combustion - Natural gas | 2002 | 2,820,808,908 scf | Interpolated |
| Fuel combustion - Natural gas | 2003 | 2,969,302,789 scf | Interpolated |
| Fuel combustion - Natural gas | 2004 | 3,117,796,670 scf | Interpolated |
| Fuel combustion - Natural gas | 2005 | 3,266,290,552 scf | O'Hare, 2007 |
| Fuel combustion - Natural gas | 2006 | 2,829,765,445 scf | ARB, 2008 |
| Fuel combustion - Natural gas | 2007 | 2,377,765,279 scf | Interpolated |
| Fuel combustion - Natural gas | 2008 | 1,925,765,112 scf | ARB, 2012b |
| Fuel combustion - Natural gas | 2009 | 1,178,441,000 scf | ARB, 2012b |
| Fuel combustion - Natural gas | 2010 | 920,972,600 scf | ARB, 2012b |
| Fuel combustion - Natural gas | 2011 | 1,065,467,301 scf | ARB, 2012b |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 9.001E-07 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2009 | 9.060E-07 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2010 | 9.321E-07 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2011 | 9.489E-07 g / btu | ARB, 2012b |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2009 | 0.0529 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2010 | 0.0527 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2011 | 0.0411 g / btu | ARB, 2012b |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 9.688E-08 g / btu | ARB, 2012b |
| Fuel N2O emission | 2009 | 9.834E-08 g / btu | ARB, 2012b |
| Fuel N2O emission | 2010 | 9.891E-08 g / btu | ARB, 2012b |
| Fuel N2O emission | 2011 | 9.489E-08 g / btu | ARB, 2012b |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,018 btu / scf | ARB, 2012b |
| Heat content | 2009 | 1,015 btu / scf | ARB, 2012b |
| Heat content | 2010 | 1,018 btu / scf | ARB, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| Heat content | 2011 | 1,028 btu / scf | ARB, 2012b |
|--|----------|---------------------|---------------|
| Activity = Fuel combustion - Petroleum coke | | | |
| - Variable Name - | - Year - | - Value and Units - | - Reference - |
| Fuel combustion - Petroleum coke | 1990 | 93,039 ton | O'Hare, 2007 |
| Fuel combustion - Petroleum coke | 1991 | 120,455 ton | Interpolated |
| Fuel combustion - Petroleum coke | 1992 | 147,872 ton | Interpolated |
| Fuel combustion - Petroleum coke | 1993 | 175,288 ton | Interpolated |
| Fuel combustion - Petroleum coke | 1994 | 202,705 ton | Interpolated |
| Fuel combustion - Petroleum coke | 1995 | 230,121 ton | O'Hare, 2007 |
| Fuel combustion - Petroleum coke | 1996 | 229,075 ton | Interpolated |
| Fuel combustion - Petroleum coke | 1997 | 228,028 ton | Interpolated |
| Fuel combustion - Petroleum coke | 1998 | 226,981 ton | Interpolated |
| Fuel combustion - Petroleum coke | 1999 | 225,934 ton | Interpolated |
| Fuel combustion - Petroleum coke | 2000 | 224,888 ton | O'Hare, 2007 |
| Fuel combustion - Petroleum coke | 2001 | 228,653 ton | Interpolated |
| Fuel combustion - Petroleum coke | 2002 | 232,418 ton | Interpolated |
| Fuel combustion - Petroleum coke | 2003 | 236,184 ton | Interpolated |
| Fuel combustion - Petroleum coke | 2004 | 239,949 ton | Interpolated |
| Fuel combustion - Petroleum coke | 2005 | 243,715 ton | O'Hare, 2007 |
| Fuel combustion - Petroleum coke | 2006 | 287,561 ton | ARB, 2008 |
| Fuel combustion - Petroleum coke | 2007 | 276,970 ton | Interpolated |
| Fuel combustion - Petroleum coke | 2008 | 266,378 ton | ARB, 2012b |
| Fuel combustion - Petroleum coke | 2009 | 179,877 ton | ARB, 2012b |
| Fuel combustion - Petroleum coke | 2010 | 191,335 ton | ARB, 2012b |
| Fuel combustion - Petroleum coke | 2011 | 213,767 ton | ARB, 2012b |
| Fuel CH4 emission | 1990 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 3.919E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2009 | 3.819E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2010 | 3.744E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2011 | 4.197E-06 g / btu | ARB, 2012b |
| Fuel CO2 emission | 1990 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.102 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|----------------------|------------|
| Fuel CO2 emission | 1998 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.0991 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2009 | 0.102 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2010 | 0.0867 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2011 | 0.0828 g / btu | ARB, 2012b |
| Fuel N2O emission | 1990 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 7.695E-07 g / btu | ARB, 2012b |
| Fuel N2O emission | 2009 | 7.898E-07 g / btu | ARB, 2012b |
| Fuel N2O emission | 2010 | 6.620E-07 g / btu | ARB, 2012b |
| Fuel N2O emission | 2011 | 7.496E-07 g / btu | ARB, 2012b |
| Heat content | 1990 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 1991 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 1992 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 1993 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 1994 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 1995 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 1996 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 1997 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 1998 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 1999 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2000 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2001 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2002 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2003 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2004 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2005 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2006 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2007 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2008 | 28,407,049 btu / ton | ARB, 2012b |
| Heat content | 2009 | 26,925,300 btu / ton | ARB, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| Heat content | 2010 | 28,844,084 btu / ton | ARB, 2012b |
|---|----------|----------------------|---------------|
| Heat content | 2011 | 24,800,000 btu / ton | ARB, 2012b |
| Activity = Fuel combustion - Residual fuel oil | | | |
| - Variable Name - | - Year - | - Value and Units - | - Reference - |
| Fuel combustion - Residual fuel oil | 1990 | 3,850,084 gal | O'Hare, 2007 |
| Fuel combustion - Residual fuel oil | 1991 | 4,405,462 gal | Interpolated |
| Fuel combustion - Residual fuel oil | 1992 | 4,960,839 gal | Interpolated |
| Fuel combustion - Residual fuel oil | 1993 | 5,516,216 gal | Interpolated |
| Fuel combustion - Residual fuel oil | 1994 | 6,071,593 gal | Interpolated |
| Fuel combustion - Residual fuel oil | 1995 | 6,626,970 gal | O'Hare, 2007 |
| Fuel combustion - Residual fuel oil | 1996 | 6,421,453 gal | Interpolated |
| Fuel combustion - Residual fuel oil | 1997 | 6,215,936 gal | Interpolated |
| Fuel combustion - Residual fuel oil | 1998 | 6,010,419 gal | Interpolated |
| Fuel combustion - Residual fuel oil | 1999 | 5,804,902 gal | Interpolated |
| Fuel combustion - Residual fuel oil | 2000 | 5,599,385 gal | O'Hare, 2007 |
| Fuel combustion - Residual fuel oil | 2001 | 5,852,084 gal | Interpolated |
| Fuel combustion - Residual fuel oil | 2002 | 6,104,782 gal | Interpolated |
| Fuel combustion - Residual fuel oil | 2003 | 6,357,481 gal | Interpolated |
| Fuel combustion - Residual fuel oil | 2004 | 6,610,179 gal | Interpolated |
| Fuel combustion - Residual fuel oil | 2005 | 6,862,878 gal | O'Hare, 2007 |
| Fuel combustion - Residual fuel oil | 2006 | 4,898,844 gal | ARB, 2008 |
| Fuel combustion - Residual fuel oil | 2007 | 2,862,246 gal | Interpolated |
| Fuel combustion - Residual fuel oil | 2008 | 825,648 gal | ARB, 2012b |
| Fuel combustion - Residual fuel oil | 2009 | 0 gal | ARB, 2012b |
| Fuel combustion - Residual fuel oil | 2010 | 0 gal | ARB, 2012b |
| Fuel combustion - Residual fuel oil | 2011 | 0 gal | ARB, 2012b |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.0751 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CO2 emission | 1997 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.0787 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2009 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.0751 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 5.967E-07 g / btu | ARB, 2012b |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 1991 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 1992 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 1993 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 1994 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 1995 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 1996 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 1997 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 1998 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 1999 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2000 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2003 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2004 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2005 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2006 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 149,955 btu / gal | ARB, 2012b |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| Heat content | 2009 | 150,000 btu / gal | USEPA 2012 |
|---|----------|---------------------|---------------|
| Heat content | 2010 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2011 | 150,000 btu / gal | USEPA 2012 |
| Activity = Fuel combustion - Tires | | | |
| - Variable Name - | - Year - | - Value and Units - | - Reference - |
| Fuel combustion - Tires | 1990 | 14,435 ton | O'Hare, 2007 |
| Fuel combustion - Tires | 1991 | 21,089 ton | Interpolated |
| Fuel combustion - Tires | 1992 | 27,744 ton | Interpolated |
| Fuel combustion - Tires | 1993 | 34,399 ton | Interpolated |
| Fuel combustion - Tires | 1994 | 41,054 ton | Interpolated |
| Fuel combustion - Tires | 1995 | 47,708 ton | O'Hare, 2007 |
| Fuel combustion - Tires | 1996 | 46,372 ton | Interpolated |
| Fuel combustion - Tires | 1997 | 45,036 ton | Interpolated |
| Fuel combustion - Tires | 1998 | 43,700 ton | Interpolated |
| Fuel combustion - Tires | 1999 | 42,364 ton | Interpolated |
| Fuel combustion - Tires | 2000 | 41,027 ton | O'Hare, 2007 |
| Fuel combustion - Tires | 2001 | 48,574 ton | Interpolated |
| Fuel combustion - Tires | 2002 | 56,121 ton | Interpolated |
| Fuel combustion - Tires | 2003 | 63,668 ton | Interpolated |
| Fuel combustion - Tires | 2004 | 71,214 ton | Interpolated |
| Fuel combustion - Tires | 2005 | 78,761 ton | O'Hare, 2007 |
| Fuel combustion - Tires | 2006 | 72,444 ton | ARB, 2008 |
| Fuel combustion - Tires | 2007 | 75,696 ton | Interpolated |
| Fuel combustion - Tires | 2008 | 78,948 ton | ARB, 2012b |
| Fuel combustion - Tires | 2009 | 55,932 ton | ARB, 2012b |
| Fuel combustion - Tires | 2010 | 68,235 ton | ARB, 2012b |
| Fuel combustion - Tires | 2011 | 61,008 ton | ARB, 2012b |
| Fuel CH4 emission | 1990 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 2.869E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2009 | 3.002E-06 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2010 | 1.237E-05 g / btu | ARB, 2012b |
| Fuel CH4 emission | 2011 | 2.265E-05 g / btu | ARB, 2012b |
| Fuel CO2 emission | 1990 | 0.086 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.086 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.086 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.086 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.086 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.086 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|----------------------|------------|
| Fuel CO2 emission | 1996 | 0.086 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.086 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.086 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.086 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.086 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.086 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.086 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.086 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.086 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.086 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.086 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.086 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.0894 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2009 | 0.0918 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2010 | 0.0886 g / btu | ARB, 2012b |
| Fuel CO2 emission | 2011 | 0.0679 g / btu | ARB, 2012b |
| Fuel N2O emission | 1990 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 4.826E-07 g / btu | ARB, 2012b |
| Fuel N2O emission | 2009 | 6.005E-07 g / btu | ARB, 2012b |
| Fuel N2O emission | 2010 | 1.760E-06 g / btu | ARB, 2012b |
| Fuel N2O emission | 2011 | 2.972E-06 g / btu | ARB, 2012b |
| Heat content | 1990 | 26,870,000 btu / ton | USEPA 2012 |
| Heat content | 1991 | 26,870,000 btu / ton | USEPA 2012 |
| Heat content | 1992 | 26,870,000 btu / ton | USEPA 2012 |
| Heat content | 1993 | 26,870,000 btu / ton | USEPA 2012 |
| Heat content | 1994 | 26,870,000 btu / ton | USEPA 2012 |
| Heat content | 1995 | 26,870,000 btu / ton | USEPA 2012 |
| Heat content | 1996 | 26,870,000 btu / ton | USEPA 2012 |
| Heat content | 1997 | 26,870,000 btu / ton | USEPA 2012 |
| Heat content | 1998 | 26,870,000 btu / ton | USEPA 2012 |
| Heat content | 1999 | 26,870,000 btu / ton | USEPA 2012 |
| Heat content | 2000 | 26,870,000 btu / ton | USEPA 2012 |
| Heat content | 2001 | 26,870,000 btu / ton | USEPA 2012 |
| Heat content | 2002 | 26,870,000 btu / ton | USEPA 2012 |
| Heat content | 2003 | 26,870,000 btu / ton | USEPA 2012 |
| Heat content | 2004 | 26,870,000 btu / ton | USEPA 2012 |
| Heat content | 2005 | 26,870,000 btu / ton | USEPA 2012 |
| Heat content | 2006 | 26,870,000 btu / ton | USEPA 2012 |
| Heat content | 2007 | 26,870,000 btu / ton | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------------------|------|----------------------|------------|
| Heat content | 2008 | 27,735,673 btu / ton | ARB, 2012b |
| Heat content | 2009 | 27,056,957 btu / ton | ARB, 2012b |
| Heat content | 2010 | 27,172,788 btu / ton | ARB, 2012b |
| Heat content | 2011 | 26,870,000 btu / ton | ARB, 2012b |
| Proportion of renewables | 1990 | 0.2 | RMA, 2007 |
| Proportion of renewables | 1991 | 0.2 | RMA, 2007 |
| Proportion of renewables | 1992 | 0.2 | RMA, 2007 |
| Proportion of renewables | 1993 | 0.2 | RMA, 2007 |
| Proportion of renewables | 1994 | 0.2 | RMA, 2007 |
| Proportion of renewables | 1995 | 0.2 | RMA, 2007 |
| Proportion of renewables | 1996 | 0.2 | RMA, 2007 |
| Proportion of renewables | 1997 | 0.2 | RMA, 2007 |
| Proportion of renewables | 1998 | 0.2 | RMA, 2007 |
| Proportion of renewables | 1999 | 0.2 | RMA, 2007 |
| Proportion of renewables | 2000 | 0.2 | RMA, 2007 |
| Proportion of renewables | 2001 | 0.2 | RMA, 2007 |
| Proportion of renewables | 2002 | 0.2 | RMA, 2007 |
| Proportion of renewables | 2003 | 0.2 | RMA, 2007 |
| Proportion of renewables | 2004 | 0.2 | RMA, 2007 |
| Proportion of renewables | 2005 | 0.2 | RMA, 2007 |
| Proportion of renewables | 2006 | 0.2 | RMA, 2007 |
| Proportion of renewables | 2007 | 0.2 | RMA, 2007 |
| Proportion of renewables | 2008 | 0.152 | ARB, 2012b |
| Proportion of renewables | 2009 | 0.182 | ARB, 2012b |
| Proportion of renewables | 2010 | 0.22 | ARB, 2012b |
| Proportion of renewables | 2011 | 0.287 | ARB, 2012b |

► Sector = Manufacturing : Stone, Clay, Glass & Cement : Flat Glass

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 17,796 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1991 | 0 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1992 | 74,785 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1993 | 75,606 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1994 | 2,431,901 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1995 | 3,811,998 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1996 | 1,387,981 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1997 | 101,960,056 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1998 | 168,506,637 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1999 | 126,020,906 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2000 | 12,101,206 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2001 | 3,282,205,903 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2002 | 4,571,233,875 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2003 | 5,032,162,120 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2004 | 5,565,759,793 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2005 | 6,620,010,909 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2006 | 60,129,459 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2007 | 40,841,795 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2008 | 28,609,613 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2009 | 15,328,192 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2010 | 13,484,092 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2011 | 11,629,607 scf | Gough, 2013 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Manufacturing : Stone, Clay, Glass & Cement : Glass Containers

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 15,821,276,477 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1991 | 13,319,960,828 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1992 | 12,939,676,211 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1993 | 14,134,143,575 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1994 | 13,378,787,138 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1995 | 13,529,737,341 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1996 | 13,430,931,591 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1997 | 14,240,537,308 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1998 | 13,791,061,338 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1999 | 14,210,172,755 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2000 | 14,597,375,344 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2001 | 11,819,952,159 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2002 | 12,821,159,013 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2003 | 11,455,849,317 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2004 | 10,491,461,204 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2005 | 9,830,694,633 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2006 | 11,333,164,398 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2007 | 9,694,035,808 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2008 | 9,128,268,381 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2009 | 8,743,608,020 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2010 | 9,145,948,311 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2011 | 9,202,573,028 scf | Gough, 2013 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

IPCC category = 1A2g — Fuel Combustion Activities - Manufacturing Industries and Construction - Transport Equipment

► Sector = Manufacturing : Transportation Equip.

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 10,204,556,864 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1991 | 8,902,979,462 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1992 | 7,689,435,724 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1993 | 9,091,002,739 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1994 | 8,819,925,807 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1995 | 8,236,950,619 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1996 | 7,193,951,894 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1997 | 7,817,608,004 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1998 | 8,797,577,458 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1999 | 9,675,718,968 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2000 | 8,967,050,014 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2001 | 8,972,196,286 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2002 | 9,688,491,702 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2003 | 5,814,221,097 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2004 | 4,971,752,742 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2005 | 4,956,384,917 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2006 | 4,842,542,636 scf | Gough, 2013 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------------------|------|-------------------|-------------|
| Fuel combustion - Natural gas | 2007 | 5,064,928,151 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2008 | 5,264,370,683 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2009 | 4,665,755,367 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2010 | 4,556,193,382 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2011 | 4,346,674,418 scf | Gough, 2013 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

IPCC category = 1A2h — Fuel Combustion Activities - Manufacturing Industries and Construction - Machinery

► Sector = Manufacturing : Electric & Electronic Equip.

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 1,035,919,015 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1991 | 962,753,961 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1992 | 733,105,508 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1993 | 813,923,067 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1994 | 930,163,876 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1995 | 844,464,932 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1996 | 841,200,579 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1997 | 942,876,459 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1998 | 1,025,066,356 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1999 | 1,141,305,669 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2000 | 1,140,793,463 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2001 | 803,992,890 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2002 | 997,142,927 scf | Gough, 2013 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------------------|------|-------------------|-------------|
| Fuel combustion - Natural gas | 2003 | 528,847,949 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2004 | 570,920,810 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2005 | 524,187,934 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2006 | 538,848,715 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2007 | 537,660,706 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2008 | 520,876,400 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2009 | 461,820,440 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2010 | 442,781,127 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2011 | 433,766,111 scf | Gough, 2013 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Manufacturing : Metal Durables : Computers & Office Machines

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 8,729,528,694 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1991 | 7,507,883,686 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1992 | 6,468,713,690 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1993 | 7,071,889,038 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1994 | 6,784,107,885 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1995 | 6,590,799,555 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1996 | 6,828,932,906 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1997 | 7,081,488,842 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1998 | 7,849,876,523 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1999 | 8,816,998,041 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2000 | 17,466,963,729 scf | Gough, 2013 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------------------|------|-------------------|-------------|
| Fuel combustion - Natural gas | 2001 | 7,250,355,738 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2002 | 7,801,055,143 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2003 | 6,604,803,076 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2004 | 5,896,447,804 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2005 | 6,153,141,439 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2006 | 6,673,551,564 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2007 | 6,094,610,590 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2008 | 5,311,239,980 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2009 | 4,887,348,330 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2010 | 4,690,933,668 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2011 | 4,528,714,977 scf | Gough, 2013 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Manufacturing : Metal Durables : Fabricated Metal Products

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 10,601,766,450 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1991 | 9,023,837,925 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1992 | 7,208,216,498 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1993 | 9,018,061,297 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1994 | 9,355,102,185 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1995 | 9,753,203,444 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1996 | 9,928,260,049 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1997 | 11,582,432,744 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1998 | 11,809,287,240 scf | Gough, 2013 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------------------|------|--------------------|-------------|
| Fuel combustion - Natural gas | 1999 | 12,548,118,323 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2000 | 13,108,445,829 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2001 | 13,094,324,950 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2002 | 13,370,587,289 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2003 | 9,097,809,632 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2004 | 9,597,403,061 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2005 | 9,680,099,303 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2006 | 9,363,890,875 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2007 | 9,274,894,892 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2008 | 8,758,651,879 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2009 | 7,547,519,506 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2010 | 7,985,712,526 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2011 | 8,456,404,051 scf | Gough, 2013 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Manufacturing : Metal Durables : Industrial Machinery & Equip.

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 4,183,289,191 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1991 | 2,472,246,373 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1992 | 2,358,397,488 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1993 | 2,959,550,585 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1994 | 2,659,138,520 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1995 | 2,796,990,820 scf | Gough, 2013 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------------------|------|-------------------|-------------|
| Fuel combustion - Natural gas | 1996 | 2,762,004,886 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1997 | 2,465,170,293 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1998 | 2,749,912,212 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1999 | 3,059,813,203 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2000 | 2,858,845,796 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2001 | 2,410,194,095 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2002 | 2,403,166,022 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2003 | 1,832,890,717 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2004 | 2,526,544,898 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2005 | 2,347,445,339 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2006 | 2,660,018,216 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2007 | 2,221,256,801 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2008 | 2,408,293,740 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2009 | 2,212,317,061 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2010 | 1,708,652,295 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2011 | 1,726,278,359 scf | Gough, 2013 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

IPCC category = 1A2i — Fuel Combustion Activities - Manufacturing Industries and Construction - Mining (excluding fuels) and Quarrying

► Sector = Mining : Coal

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 0 scf | Gough, 2013 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------------------|------|-------------------|-------------|
| Fuel combustion - Natural gas | 1991 | 0 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1992 | 0 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1993 | 0 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1994 | 0 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1995 | 109,160,303 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1996 | 0 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1997 | 0 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1998 | 387,747 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1999 | 0 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2000 | 349 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2001 | 106,321 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2002 | 85,420 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2003 | 101,387 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2004 | 211,654 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2005 | 318,705 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2006 | 13,981 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2007 | 15,253 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2008 | 26,817 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2009 | 0 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2010 | 0 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2011 | 0 scf | Gough, 2013 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Mining : Metals

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 6,337,720 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1991 | 7,474,448 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1992 | 204,953,785 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1993 | 8,864,453 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1994 | 23,712,214 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1995 | 5,859,847,626 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1996 | 5,324,069,096 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1997 | 5,315,029,499 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1998 | 4,886,406,074 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1999 | 5,005,806,200 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2000 | 10,486,425,780 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2001 | 5,242,073,679 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2002 | 5,084,681,026 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2003 | 4,910,580,764 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2004 | 5,026,838,961 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2005 | 4,729,478,729 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2006 | 211,030,112 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2007 | 214,058,921 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2008 | 4,533,380 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2009 | 2,739,559 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2010 | 2,992,658 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2011 | 2,712,421 scf | Gough, 2013 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|-----------------|------------|
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Mining : Non Metals

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 550,446,326 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1991 | 583,654,406 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1992 | 769,161,678 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1993 | 652,003,487 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1994 | 676,030,239 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1995 | 615,137,992 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1996 | 674,375,109 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1997 | 721,918,796 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1998 | 916,330,228 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1999 | 978,587,966 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2000 | 6,400,706,873 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2001 | 571,618,395 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2002 | 646,671,028 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2003 | 1,303,518,882 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2004 | 1,692,139,753 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2005 | 1,547,097,165 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2006 | 1,743,047,546 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2007 | 2,733,662,586 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2008 | 3,439,634,671 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2009 | 2,584,073,263 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2010 | 2,732,395,203 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2011 | 2,803,789,190 scf | Gough, 2013 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|-----------------|------------|
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

IPCC category = 1A2j — Fuel Combustion Activities - Manufacturing Industries and Construction - Wood and Wood Products

► Sector = Manufacturing : Wood & Furniture : Furniture & Fixtures

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 1,135,939,980 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1991 | 756,073,179 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1992 | 544,742,405 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1993 | 678,924,417 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1994 | 738,537,673 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1995 | 653,646,836 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1996 | 667,105,024 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1997 | 830,035,883 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1998 | 960,696,854 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1999 | 1,135,386,088 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2000 | 1,159,180,546 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2001 | 981,328,974 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2002 | 1,017,152,703 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2003 | 772,119,554 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2004 | 801,076,157 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2005 | 756,135,107 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2006 | 721,345,263 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2007 | 622,994,014 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2008 | 500,872,417 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2009 | 391,691,670 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2010 | 338,954,684 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2011 | 322,383,144 scf | Gough, 2013 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|-----------------|------------|
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Manufacturing : Wood & Furniture : Lumber & Wood Products

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 3,789,506,000 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1991 | 3,960,491,188 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1992 | 5,922,743,579 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1993 | 5,444,185,190 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1994 | 6,597,715,774 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1995 | 6,837,556,058 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1996 | 5,341,117,277 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1997 | 5,450,961,365 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1998 | 6,450,940,800 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1999 | 5,728,215,079 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2000 | 6,663,781,478 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2001 | 4,756,279,742 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2002 | 2,530,628,568 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2003 | 2,130,241,700 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2004 | 1,275,364,408 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2005 | 1,213,097,210 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2006 | 1,222,495,411 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2007 | 893,594,914 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2008 | 829,050,923 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2009 | 617,308,664 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2010 | 594,860,251 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2011 | 469,732,898 scf | Gough, 2013 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|-----------------|------------|
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

IPCC category = 1A2k — Fuel Combustion Activities - Manufacturing Industries and Construction - Construction

► Sector = Manufacturing : Construction

Activity = Fuel combustion - Ethanol

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|---------------------------|----------|---------------------|---------------|
| Fuel combustion - Ethanol | 1990 | 147,756 gal | TSD General |
| Fuel combustion - Ethanol | 1991 | 164,377 gal | TSD General |
| Fuel combustion - Ethanol | 1992 | 15,467 gal | TSD General |
| Fuel combustion - Ethanol | 1993 | 48,368 gal | TSD General |
| Fuel combustion - Ethanol | 1994 | 60,635 gal | TSD General |
| Fuel combustion - Ethanol | 1995 | 196,522 gal | TSD General |
| Fuel combustion - Ethanol | 1996 | 165,073 gal | TSD General |
| Fuel combustion - Ethanol | 1997 | 179,872 gal | TSD General |
| Fuel combustion - Ethanol | 1998 | 100,180 gal | TSD General |
| Fuel combustion - Ethanol | 1999 | 56,673 gal | TSD General |
| Fuel combustion - Ethanol | 2000 | 120,626 gal | TSD General |
| Fuel combustion - Ethanol | 2001 | 278,809 gal | TSD General |
| Fuel combustion - Ethanol | 2002 | 351,485 gal | TSD General |
| Fuel combustion - Ethanol | 2003 | 2,072,877 gal | TSD General |
| Fuel combustion - Ethanol | 2004 | 3,575,557 gal | TSD General |
| Fuel combustion - Ethanol | 2005 | 3,336,157 gal | TSD General |
| Fuel combustion - Ethanol | 2006 | 3,291,243 gal | TSD General |
| Fuel combustion - Ethanol | 2007 | 2,583,474 gal | TSD General |
| Fuel combustion - Ethanol | 2008 | 2,541,300 gal | TSD General |
| Fuel combustion - Ethanol | 2009 | 2,460,618 gal | TSD General |
| Fuel combustion - Ethanol | 2010 | 4,673,062 gal | TSD General |
| Fuel combustion - Ethanol | 2011 | 6,099,428 gal | TSD General |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.0684 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1991 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1992 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1993 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1994 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1995 | 84,000 btu / gal | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|------------------|------------|
| Heat content | 1996 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1997 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1998 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1999 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2000 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2003 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2004 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2005 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2006 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2009 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2010 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2011 | 84,000 btu / gal | USEPA 2012 |

Activity = Fuel combustion - Gasoline

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|----------------------------|----------|---------------------|---------------|
| Fuel combustion - Gasoline | 1990 | 43,885,244 gal | TSD General |
| Fuel combustion - Gasoline | 1991 | 38,061,623 gal | TSD General |
| Fuel combustion - Gasoline | 1992 | 38,480,533 gal | TSD General |
| Fuel combustion - Gasoline | 1993 | 33,691,632 gal | TSD General |
| Fuel combustion - Gasoline | 1994 | 31,453,365 gal | TSD General |
| Fuel combustion - Gasoline | 1995 | 30,211,478 gal | TSD General |
| Fuel combustion - Gasoline | 1996 | 24,816,927 gal | TSD General |
| Fuel combustion - Gasoline | 1997 | 28,061,128 gal | TSD General |
| Fuel combustion - Gasoline | 1998 | 23,997,820 gal | TSD General |
| Fuel combustion - Gasoline | 1999 | 16,916,327 gal | TSD General |
| Fuel combustion - Gasoline | 2000 | 31,931,374 gal | TSD General |
| Fuel combustion - Gasoline | 2001 | 54,785,191 gal | TSD General |
| Fuel combustion - Gasoline | 2002 | 58,911,515 gal | TSD General |
| Fuel combustion - Gasoline | 2003 | 57,901,123 gal | TSD General |
| Fuel combustion - Gasoline | 2004 | 65,094,443 gal | TSD General |
| Fuel combustion - Gasoline | 2005 | 57,035,843 gal | TSD General |
| Fuel combustion - Gasoline | 2006 | 56,164,757 gal | TSD General |
| Fuel combustion - Gasoline | 2007 | 44,007,526 gal | TSD General |
| Fuel combustion - Gasoline | 2008 | 39,068,700 gal | TSD General |
| Fuel combustion - Gasoline | 2009 | 37,156,382 gal | TSD General |
| Fuel combustion - Gasoline | 2010 | 44,493,938 gal | TSD General |
| Fuel combustion - Gasoline | 2011 | 52,945,572 gal | TSD General |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.0712 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.0713 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.0715 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.0713 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.0708 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.0709 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.0709 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.0711 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.0711 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.0713 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.0717 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.0713 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.0713 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.0713 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.0713 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1991 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1992 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1993 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1994 | 125,000 btu / gal | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|-------------------|------------|
| Heat content | 1995 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1996 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1997 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1998 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1999 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2000 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2003 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2004 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2005 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2006 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2009 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2010 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2011 | 125,000 btu / gal | USEPA 2012 |

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 2,840,639,547 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1991 | 2,524,305,646 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1992 | 2,093,808,021 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1993 | 2,074,612,799 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1994 | 2,155,028,011 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1995 | 2,120,296,945 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1996 | 2,849,674,260 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1997 | 2,589,682,945 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1998 | 3,015,216,347 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1999 | 2,588,336,257 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2000 | 2,527,370,259 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2001 | 2,181,234,490 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2002 | 1,787,571,375 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2003 | 2,000,156,875 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2004 | 3,224,604,645 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2005 | 3,972,124,754 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2006 | 1,750,279,823 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2007 | 1,613,348,781 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2008 | 1,378,291,602 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2009 | 1,454,821,033 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2010 | 1,442,869,784 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2011 | 1,559,138,203 scf | Gough, 2013 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|-----------------|------------|
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

IPCC category = 1A2I — Fuel Combustion Activities - Manufacturing Industries and Construction - Textile and Leather

► Sector = Manufacturing : Textiles : Apparel

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 488,999,217 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1991 | 414,953,374 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1992 | 425,668,978 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1993 | 457,735,962 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1994 | 478,910,080 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1995 | 434,773,341 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1996 | 407,750,937 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1997 | 484,296,893 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1998 | 508,471,187 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1999 | 506,721,069 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2000 | 505,789,922 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2001 | 469,886,574 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2002 | 509,263,088 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2003 | 288,126,293 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2004 | 378,930,890 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2005 | 384,711,202 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2006 | 397,922,970 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2007 | 362,677,030 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2008 | 254,932,035 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2009 | 195,410,666 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2010 | 186,550,367 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2011 | 178,555,370 scf | Gough, 2013 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|-----------------|------------|
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Manufacturing : Textiles : Leather

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 180,463,529 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1991 | 135,975,735 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1992 | 68,582,153 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1993 | 122,582,129 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1994 | 148,308,675 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1995 | 104,650,794 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1996 | 104,143,835 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1997 | 90,609,036 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1998 | 69,656,562 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1999 | 71,281,648 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2000 | 77,766,327 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2001 | 156,340,131 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2002 | 69,012,239 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2003 | 108,339,148 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2004 | 47,528,429 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2005 | 66,322,113 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2006 | 32,124,528 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2007 | 33,673,687 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2008 | 34,131,033 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2009 | 23,270,528 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2010 | 27,387,176 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2011 | 32,145,409 scf | Gough, 2013 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Manufacturing : Textiles : Textile Mills

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 4,973,574,773 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1991 | 3,731,146,904 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1992 | 2,945,206,243 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1993 | 4,517,568,635 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1994 | 5,759,625,210 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1995 | 5,739,329,937 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1996 | 6,035,518,069 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1997 | 7,627,686,987 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1998 | 8,291,901,052 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1999 | 9,982,932,880 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2000 | 10,505,087,022 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2001 | 9,343,857,693 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2002 | 10,369,961,069 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2003 | 7,877,116,928 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2004 | 7,746,653,729 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2005 | 7,553,033,234 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2006 | 6,781,760,197 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2007 | 6,014,780,832 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2008 | 5,296,740,704 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2009 | 4,079,342,350 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2010 | 4,275,792,168 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2011 | 4,052,498,795 scf | Gough, 2013 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

IPCC category = 1A2m — Fuel Combustion Activities - Manufacturing Industries and Construction - Non-specified Industry.

► Sector = Manufacturing

Activity = Fuel combustion - Coal

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|------------------------|----------|---------------------|---------------|
| Fuel combustion - Coal | 1990 | 1,511,728 ton | EIA, 2013e |
| Fuel combustion - Coal | 1991 | 1,467,258 ton | EIA, 2013e |
| Fuel combustion - Coal | 1992 | 1,575,633 ton | EIA, 2013e |
| Fuel combustion - Coal | 1993 | 1,124,628 ton | EIA, 2013e |
| Fuel combustion - Coal | 1994 | 1,203,932 ton | EIA, 2013e |
| Fuel combustion - Coal | 1995 | 1,415,887 ton | EIA, 2013e |
| Fuel combustion - Coal | 1996 | 1,293,249 ton | EIA, 2013e |
| Fuel combustion - Coal | 1997 | 1,524,983 ton | EIA, 2013e |
| Fuel combustion - Coal | 1998 | 661,862 ton | EIA, 2013e |
| Fuel combustion - Coal | 1999 | 759,530 ton | EIA, 2013e |
| Fuel combustion - Coal | 2000 | 666,046 ton | EIA, 2013e |
| Fuel combustion - Coal | 2001 | 618,911 ton | EIA, 2013e |
| Fuel combustion - Coal | 2002 | 662,828 ton | EIA, 2013e |
| Fuel combustion - Coal | 2003 | 674,046 ton | EIA, 2013e |
| Fuel combustion - Coal | 2004 | 619,955 ton | EIA, 2013e |
| Fuel combustion - Coal | 2005 | 670,029 ton | EIA, 2013e |
| Fuel combustion - Coal | 2006 | 656,261 ton | EIA, 2013e |
| Fuel combustion - Coal | 2007 | 726,033 ton | EIA, 2013e |
| Fuel combustion - Coal | 2008 | 718,335 ton | EIA, 2013e |
| Fuel combustion - Coal | 2009 | 705,652 ton | EIA, 2013e |
| Fuel combustion - Coal | 2010 | 800,687 ton | EIA, 2013e |
| Fuel combustion - Coal | 2011 | 872,209 ton | EIA, 2013e |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CH4 emission | 1990 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.0934 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.600E-06 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|----------------------|------------|
| Fuel N2O emission | 2002 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.600E-06 g / btu | USEPA 2012 |
| Heat content | 1990 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1991 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1992 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1993 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1994 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1995 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1996 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1997 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1998 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1999 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2000 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2001 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2002 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2003 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2004 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2005 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2006 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2007 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2008 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2009 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2010 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2011 | 24,930,000 btu / ton | USEPA 2012 |

Activity = Fuel combustion - Distillate

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|------------------------------|----------|---------------------|---------------|
| Fuel combustion - Distillate | 1990 | 196,510,728 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1991 | 169,402,711 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1992 | 57,894,615 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1993 | 39,923,130 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1994 | 47,854,101 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1995 | 55,292,071 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1996 | 37,436,222 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1997 | 46,458,697 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1998 | 59,649,450 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1999 | 34,347,659 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2000 | 43,006,713 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2001 | 47,928,845 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2002 | 42,844,827 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2003 | 46,689,031 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2004 | 50,606,776 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2005 | 45,976,314 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2006 | 52,239,567 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2007 | 52,578,721 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2008 | 42,227,139 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2009 | 61,095,910 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2010 | 70,862,436 gal | EIA, 2013d |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|------------------------------|------|-------------------|------------|
| Fuel combustion - Distillate | 2011 | 70,451,000 gal | EIA, 2013d |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.074 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1991 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1992 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1993 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1994 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1995 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1996 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1997 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1998 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1999 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2000 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2003 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2004 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2005 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2006 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2009 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2010 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2011 | 138,000 btu / gal | USEPA 2012 |

Activity = Fuel combustion - Ethanol

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|---------------------------|----------|---------------------|---------------|
| Fuel combustion - Ethanol | 1990 | 177,274 gal | TSD General |
| Fuel combustion - Ethanol | 1991 | 226,737 gal | TSD General |
| Fuel combustion - Ethanol | 1992 | 21,496 gal | TSD General |
| Fuel combustion - Ethanol | 1993 | 33,620 gal | TSD General |
| Fuel combustion - Ethanol | 1994 | 45,499 gal | TSD General |
| Fuel combustion - Ethanol | 1995 | 161,907 gal | TSD General |
| Fuel combustion - Ethanol | 1996 | 165,998 gal | TSD General |
| Fuel combustion - Ethanol | 1997 | 169,198 gal | TSD General |
| Fuel combustion - Ethanol | 1998 | 183,773 gal | TSD General |
| Fuel combustion - Ethanol | 1999 | 98,592 gal | TSD General |
| Fuel combustion - Ethanol | 2000 | 63,952 gal | TSD General |
| Fuel combustion - Ethanol | 2001 | 479,808 gal | TSD General |
| Fuel combustion - Ethanol | 2002 | 592,436 gal | TSD General |
| Fuel combustion - Ethanol | 2003 | 3,706,459 gal | TSD General |
| Fuel combustion - Ethanol | 2004 | 5,976,549 gal | TSD General |
| Fuel combustion - Ethanol | 2005 | 5,854,244 gal | TSD General |
| Fuel combustion - Ethanol | 2006 | 5,777,722 gal | TSD General |
| Fuel combustion - Ethanol | 2007 | 5,582,381 gal | TSD General |
| Fuel combustion - Ethanol | 2008 | 6,239,957 gal | TSD General |
| Fuel combustion - Ethanol | 2009 | 6,021,269 gal | TSD General |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|---------------------------|------|-------------------|-------------|
| Fuel combustion - Ethanol | 2010 | 11,406,027 gal | TSD General |
| Fuel combustion - Ethanol | 2011 | 11,147,662 gal | TSD General |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.0684 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1991 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1992 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1993 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1994 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1995 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1996 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1997 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1998 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1999 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2000 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2003 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2004 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2005 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2006 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2009 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2010 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2011 | 84,000 btu / gal | USEPA 2012 |

Activity = Fuel combustion - Gasoline

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|----------------------------|----------|---------------------|---------------|
| Fuel combustion - Gasoline | 1990 | 52,652,726 gal | TSD General |
| Fuel combustion - Gasoline | 1991 | 52,501,263 gal | TSD General |
| Fuel combustion - Gasoline | 1992 | 53,479,504 gal | TSD General |
| Fuel combustion - Gasoline | 1993 | 23,418,380 gal | TSD General |
| Fuel combustion - Gasoline | 1994 | 23,601,501 gal | TSD General |
| Fuel combustion - Gasoline | 1995 | 24,890,093 gal | TSD General |
| Fuel combustion - Gasoline | 1996 | 24,956,002 gal | TSD General |
| Fuel combustion - Gasoline | 1997 | 26,395,802 gal | TSD General |
| Fuel combustion - Gasoline | 1998 | 44,022,227 gal | TSD General |
| Fuel combustion - Gasoline | 1999 | 29,428,408 gal | TSD General |
| Fuel combustion - Gasoline | 2000 | 16,929,048 gal | TSD General |
| Fuel combustion - Gasoline | 2001 | 94,281,192 gal | TSD General |
| Fuel combustion - Gasoline | 2002 | 99,296,564 gal | TSD General |
| Fuel combustion - Gasoline | 2003 | 103,531,541 gal | TSD General |
| Fuel combustion - Gasoline | 2004 | 108,805,451 gal | TSD General |
| Fuel combustion - Gasoline | 2005 | 100,085,756 gal | TSD General |
| Fuel combustion - Gasoline | 2006 | 98,596,278 gal | TSD General |
| Fuel combustion - Gasoline | 2007 | 95,091,619 gal | TSD General |
| Fuel combustion - Gasoline | 2008 | 95,930,043 gal | TSD General |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|----------------------------|------|-------------------|-------------|
| Fuel combustion - Gasoline | 2009 | 90,923,731 gal | TSD General |
| Fuel combustion - Gasoline | 2010 | 108,600,973 gal | TSD General |
| Fuel combustion - Gasoline | 2011 | 96,766,338 gal | TSD General |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.0712 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.0713 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.0715 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.0713 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.0708 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.0709 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.0709 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.0711 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.0711 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.0713 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.0717 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.0713 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.0713 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.0713 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.0713 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1991 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1992 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1993 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1994 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1995 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1996 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1997 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1998 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1999 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2000 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2003 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2004 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2005 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2006 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2009 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2010 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2011 | 125,000 btu / gal | USEPA 2012 |

Activity = Fuel combustion - Kerosene

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|----------------------------|----------|---------------------|---------------|
| Fuel combustion - Kerosene | 1990 | 3,756,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1991 | 3,270,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1992 | 716,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1993 | 1,175,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1994 | 1,085,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1995 | 2,049,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1996 | 4,769,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1997 | 7,411,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1998 | 6,878,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1999 | 1,572,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2000 | 961,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2001 | 1,286,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2002 | 336,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2003 | 1,368,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2004 | 1,303,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2005 | 1,290,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2006 | 975,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2007 | 967,000 gal | EIA, 2013d |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|----------------------------|------|-------------------|------------|
| Fuel combustion - Kerosene | 2008 | 347,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2009 | 101,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2010 | 143,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2011 | 317,000 gal | EIA, 2013d |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.0752 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1991 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1992 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1993 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1994 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1995 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1996 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1997 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1998 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1999 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2000 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2003 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2004 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2005 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2006 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2009 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2010 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2011 | 135,000 btu / gal | USEPA 2012 |

Activity = Fuel combustion - LPG

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-----------------------|----------|---------------------|---------------|
| Fuel combustion - LPG | 1990 | 516,768,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 1991 | 405,636,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 1992 | 621,096,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 1993 | 423,066,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 1994 | 473,172,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 1995 | 356,538,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 1996 | 236,628,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 1997 | 175,098,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 1998 | 130,200,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 1999 | 212,856,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 2000 | 249,816,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 2001 | 267,414,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 2002 | 385,896,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 2003 | 281,526,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 2004 | 201,558,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 2005 | 73,584,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 2006 | 126,000,000 gal | EIA, 2013e |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-----------------------|------|-------------------|------------|
| Fuel combustion - LPG | 2007 | 80,346,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 2008 | 186,816,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 2009 | 259,429,102 gal | EIA, 2013e |
| Fuel combustion - LPG | 2010 | 255,229,835 gal | EIA, 2013e |
| Fuel combustion - LPG | 2011 | 289,540,218 gal | EIA, 2013e |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.063 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1991 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1992 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1993 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1994 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1995 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1996 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1997 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1998 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1999 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2000 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2003 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2004 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2005 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2006 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2009 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2010 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2011 | 92,000 btu / gal | USEPA 2012 |

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 970,063,979 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1991 | 829,053,242 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1992 | 715,507,793 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1993 | 945,065,213 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1994 | 1,000,264,574 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1995 | 1,106,964,935 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1996 | 1,170,639,031 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1997 | 1,307,442,027 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1998 | 1,444,328,708 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1999 | 1,575,630,963 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2000 | 1,454,106,533 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2001 | 1,495,932,859 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2002 | 1,630,613,681 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2003 | 4,178,595,936 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2004 | 2,953,430,918 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2005 | 2,572,818,338 scf | Gough, 2013 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------------------|------|--------------------|-------------|
| Fuel combustion - Natural gas | 2006 | 2,968,228,812 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2007 | 2,606,630,310 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2008 | 14,310,772,729 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2009 | 15,048,463,703 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2010 | 19,621,550,641 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2011 | 18,071,455,969 scf | Gough, 2013 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

Activity = Fuel combustion - Petroleum coke

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|----------------------------------|----------|---------------------|-----------------------------------|
| Fuel combustion - Petroleum coke | 1990 | 156,759 ton | Assume equal to 2008-2011 average |
| Fuel combustion - Petroleum coke | 1991 | 156,759 ton | Assume equal to 2008-2011 average |
| Fuel combustion - Petroleum coke | 1992 | 156,759 ton | Assume equal to 2008-2011 average |
| Fuel combustion - Petroleum coke | 1993 | 156,759 ton | Assume equal to 2008-2011 average |
| Fuel combustion - Petroleum coke | 1994 | 156,759 ton | Assume equal to 2008-2011 average |
| Fuel combustion - Petroleum coke | 1995 | 156,759 ton | Assume equal to 2008-2011 average |
| Fuel combustion - Petroleum coke | 1996 | 156,759 ton | Assume equal to 2008-2011 average |
| Fuel combustion - Petroleum coke | 1997 | 156,759 ton | Assume equal to 2008-2011 average |
| Fuel combustion - Petroleum coke | 1998 | 156,759 ton | Assume equal to 2008-2011 average |
| Fuel combustion - Petroleum coke | 1999 | 156,759 ton | Assume equal to 2008-2011 average |
| Fuel combustion - Petroleum coke | 2000 | 156,759 ton | Assume equal to 2008-2011 average |
| Fuel combustion - Petroleum coke | 2001 | 156,759 ton | Assume equal to 2008-2011 average |
| Fuel combustion - Petroleum coke | 2002 | 156,759 ton | Assume equal to 2008-2011 average |
| Fuel combustion - Petroleum coke | 2003 | 156,759 ton | Assume equal to 2008-2011 average |
| Fuel combustion - Petroleum coke | 2004 | 156,759 ton | Assume equal to 2008-2011 average |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|----------------------------------|------|-------------------|-----------------------------------|
| Fuel combustion - Petroleum coke | 2005 | 156,759 ton | Assume equal to 2008-2011 average |
| Fuel combustion - Petroleum coke | 2006 | 156,759 ton | Assume equal to 2008-2011 average |
| Fuel combustion - Petroleum coke | 2007 | 156,759 ton | Assume equal to 2008-2011 average |
| Fuel combustion - Petroleum coke | 2008 | 172,340 ton | ARB, 2012b |
| Fuel combustion - Petroleum coke | 2009 | 143,471 ton | ARB, 2012b |
| Fuel combustion - Petroleum coke | 2010 | 142,805 ton | ARB, 2012b |
| Fuel combustion - Petroleum coke | 2011 | 168,419 ton | ARB, 2012b |
| Fuel CH4 emission | 1990 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.100E-05 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.102 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.102 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.600E-06 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|----------------------|------------|
| Fuel N2O emission | 1995 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 1.600E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.600E-06 g / btu | USEPA 2012 |
| Heat content | 1990 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 1991 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 1992 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 1993 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 1994 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 1995 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 1996 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 1997 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 1998 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 1999 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2000 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2001 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2002 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2003 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2004 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2005 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2006 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2007 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2008 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2009 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2010 | 24,800,000 btu / ton | USEPA 2012 |
| Heat content | 2011 | 24,800,000 btu / ton | USEPA 2012 |

Activity = Fuel combustion - Residual fuel oil

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------------|----------|---------------------|---------------|
| Fuel combustion - Residual fuel oil | 1990 | 20,426,292 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 1991 | 19,215,189 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 1992 | 27,651,378 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 1993 | 28,701,445 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 1994 | 22,509,146 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 1995 | 33,806,625 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 1996 | 0 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 1997 | 0 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 1998 | 0 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 1999 | 17,778,254 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 2000 | 0 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 2001 | 0 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 2002 | 0 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 2003 | 0 gal | EIA, 2013d |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------------------------|------|-------------------|------------|
| Fuel combustion - Residual fuel oil | 2004 | 0 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 2005 | 0 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 2006 | 0 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 2007 | 0 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 2008 | 1,117,352 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 2009 | 283,000 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 2010 | 523,000 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 2011 | 299,000 gal | EIA, 2013d |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.0751 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 1991 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 1992 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 1993 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 1994 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 1995 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 1996 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 1997 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 1998 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 1999 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2000 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2003 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2004 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2005 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2006 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2009 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2010 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2011 | 150,000 btu / gal | USEPA 2012 |

► Sector = Manufacturing : Plastics & Rubber

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 834,668,749 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1991 | 722,627,392 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1992 | 269,523,845 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1993 | 640,512,229 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1994 | 684,233,066 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1995 | 704,942,118 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1996 | 675,470,088 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1997 | 789,331,394 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1998 | 791,685,625 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1999 | 878,723,362 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2000 | 892,548,360 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2001 | 1,097,500,262 scf | Gough, 2013 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------------------|------|-------------------|-------------|
| Fuel combustion - Natural gas | 2002 | 1,305,977,127 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2003 | 369,787,311 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2004 | 250,810,032 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2005 | 220,608,745 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2006 | 149,436,820 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2007 | 262,156,795 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2008 | 317,694,154 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2009 | 261,100,595 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2010 | 278,012,922 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2011 | 286,446,813 scf | Gough, 2013 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Manufacturing : Plastics & Rubber : Plastics

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 3,164,889,792 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1991 | 2,775,509,743 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1992 | 2,404,255,598 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1993 | 2,422,656,839 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1994 | 2,706,543,575 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1995 | 2,723,964,395 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1996 | 2,669,393,114 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1997 | 3,246,866,859 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1998 | 4,032,637,529 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1999 | 4,398,340,146 scf | Gough, 2013 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------------------|------|-------------------|-------------|
| Fuel combustion - Natural gas | 2000 | 4,596,221,778 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2001 | 3,233,093,876 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2002 | 4,050,610,202 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2003 | 3,720,549,700 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2004 | 3,941,181,625 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2005 | 3,601,012,066 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2006 | 3,539,561,728 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2007 | 2,857,842,785 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2008 | 2,325,902,391 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2009 | 1,980,120,129 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2010 | 1,928,904,356 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2011 | 1,780,827,540 scf | Gough, 2013 |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Not Specified Industrial

Activity = Fuel combustion - Crude oil

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-----------------------------|----------|---------------------|---------------|
| Fuel combustion - Crude oil | 1990 | 63,254,394 gal | EIA, 2013e |
| Fuel combustion - Crude oil | 1991 | 138,834,612 gal | EIA, 2013e |
| Fuel combustion - Crude oil | 1992 | 148,223,376 gal | EIA, 2013e |
| Fuel combustion - Crude oil | 1993 | 136,715,166 gal | EIA, 2013e |
| Fuel combustion - Crude oil | 1994 | 121,447,620 gal | EIA, 2013e |
| Fuel combustion - Crude oil | 1995 | 104,293,686 gal | EIA, 2013e |
| Fuel combustion - Crude oil | 1996 | 99,414,000 gal | EIA, 2013e |
| Fuel combustion - Crude oil | 1997 | 33,474,000 gal | EIA, 2013e |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-----------------------------|------|-------------------|------------|
| Fuel combustion - Crude oil | 1998 | 0 gal | EIA, 2013e |
| Fuel combustion - Crude oil | 1999 | 0 gal | EIA, 2013e |
| Fuel combustion - Crude oil | 2000 | 0 gal | EIA, 2013e |
| Fuel combustion - Crude oil | 2001 | 0 gal | EIA, 2013e |
| Fuel combustion - Crude oil | 2002 | 0 gal | EIA, 2013e |
| Fuel combustion - Crude oil | 2003 | 0 gal | EIA, 2013e |
| Fuel combustion - Crude oil | 2004 | 0 gal | EIA, 2013e |
| Fuel combustion - Crude oil | 2005 | 0 gal | EIA, 2013e |
| Fuel combustion - Crude oil | 2006 | 0 gal | EIA, 2013e |
| Fuel combustion - Crude oil | 2007 | 0 gal | EIA, 2013e |
| Fuel combustion - Crude oil | 2008 | 0 gal | EIA, 2013e |
| Fuel combustion - Crude oil | 2009 | 0 gal | EIA, 2013e |
| Fuel combustion - Crude oil | 2010 | 0 gal | EIA, 2013e |
| Fuel combustion - Crude oil | 2011 | 0 gal | EIA, 2013e |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.0745 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.0745 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.0745 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.0745 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.0745 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.0745 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.0745 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.0745 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.0745 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.0745 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.0745 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.0745 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.0745 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.0745 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.0745 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.0745 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.0745 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.0745 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.0745 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.0745 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CO2 emission | 2010 | 0.0745 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.0745 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1991 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1992 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1993 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1994 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1995 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1996 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1997 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1998 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1999 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2000 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2003 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2004 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2005 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2006 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2009 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2010 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2011 | 138,000 btu / gal | USEPA 2012 |

Activity = Fuel combustion - Other petroleum products

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|--|----------|---------------------|---------------|
| Fuel combustion - Other petroleum products | 1990 | 23,828,357 gal | EIA, 2013e |
| Fuel combustion - Other petroleum products | 1991 | 16,473,083 gal | EIA, 2013e |
| Fuel combustion - Other petroleum products | 1992 | 10,799,807 gal | EIA, 2013e |
| Fuel combustion - Other petroleum products | 1993 | 10,223,033 gal | EIA, 2013e |
| Fuel combustion - Other petroleum products | 1994 | 11,424,749 gal | EIA, 2013e |
| Fuel combustion - Other petroleum products | 1995 | 10,482,644 gal | EIA, 2013e |
| Fuel combustion - Other petroleum products | 1996 | 5,285,067 gal | EIA, 2013e |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--|------|-------------------|-------------------------------|
| Fuel combustion - Other petroleum products | 1997 | 5,802,530 gal | EIA, 2013e |
| Fuel combustion - Other petroleum products | 1998 | 7,063,156 gal | EIA, 2013e |
| Fuel combustion - Other petroleum products | 1999 | 6,643,062 gal | EIA, 2013e |
| Fuel combustion - Other petroleum products | 2000 | 7,076,231 gal | EIA, 2013e |
| Fuel combustion - Other petroleum products | 2001 | 12,441,876 gal | EIA, 2013e |
| Fuel combustion - Other petroleum products | 2002 | 13,365,592 gal | EIA, 2013e |
| Fuel combustion - Other petroleum products | 2003 | 12,546,371 gal | EIA, 2013e |
| Fuel combustion - Other petroleum products | 2004 | 11,297,623 gal | EIA, 2013e |
| Fuel combustion - Other petroleum products | 2005 | 11,234,695 gal | EIA, 2013e |
| Fuel combustion - Other petroleum products | 2006 | 8,024,037 gal | EIA, 2013e |
| Fuel combustion - Other petroleum products | 2007 | 7,873,266 gal | EIA, 2013e |
| Fuel combustion - Other petroleum products | 2008 | 8,377,888 gal | EIA, 2013e |
| Fuel combustion - Other petroleum products | 2009 | 8,955,673 gal | EIA, 2013e |
| Fuel combustion - Other petroleum products | 2010 | 9,361,149 gal | EIA, 2013e |
| Fuel combustion - Other petroleum products | 2011 | 9,361,149 gal | Assume equal to previous year |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.071 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CO2 emission | 2009 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.071 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 129,000 btu / gal | USEPA 2012 |
| Heat content | 1991 | 129,000 btu / gal | USEPA 2012 |
| Heat content | 1992 | 129,000 btu / gal | USEPA 2012 |
| Heat content | 1993 | 129,000 btu / gal | USEPA 2012 |
| Heat content | 1994 | 129,000 btu / gal | USEPA 2012 |
| Heat content | 1995 | 129,000 btu / gal | USEPA 2012 |
| Heat content | 1996 | 129,000 btu / gal | USEPA 2012 |
| Heat content | 1997 | 129,000 btu / gal | USEPA 2012 |
| Heat content | 1998 | 129,000 btu / gal | USEPA 2012 |
| Heat content | 1999 | 129,000 btu / gal | USEPA 2012 |
| Heat content | 2000 | 129,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 129,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 129,000 btu / gal | USEPA 2012 |
| Heat content | 2003 | 129,000 btu / gal | USEPA 2012 |
| Heat content | 2004 | 129,000 btu / gal | USEPA 2012 |
| Heat content | 2005 | 129,000 btu / gal | USEPA 2012 |
| Heat content | 2006 | 129,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 129,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 129,000 btu / gal | USEPA 2012 |
| Heat content | 2009 | 129,000 btu / gal | USEPA 2012 |
| Heat content | 2010 | 129,000 btu / gal | USEPA 2012 |
| Heat content | 2011 | 129,000 btu / gal | USEPA 2012 |

Activity = Fuel combustion - Wood (wet)

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|------------------------------|----------|---------------------|---------------|
| Fuel combustion - Wood (wet) | 1990 | 4,090,247 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 1991 | 3,662,874 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 1992 | 3,557,672 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 1993 | 2,889,532 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 1994 | 2,642,653 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 1995 | 2,463,134 ton | EIA, 2013e |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|------------------------------|------|-------------------|-------------------------------|
| Fuel combustion - Wood (wet) | 1996 | 2,127,958 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 1997 | 2,579,779 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 1998 | 2,123,082 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 1999 | 2,323,992 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2000 | 2,577,438 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2001 | 2,905,982 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2002 | 1,783,940 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2003 | 1,734,720 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2004 | 1,751,560 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2005 | 1,929,194 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2006 | 1,775,683 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2007 | 1,797,529 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2008 | 1,605,332 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2009 | 1,513,979 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2010 | 1,533,095 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2011 | 1,533,095 ton | Assume equal to previous year |
| Fuel CH4 emission | 1990 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 3.200E-05 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.0938 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|----------------------|------------|
| Fuel CO2 emission | 2008 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.0938 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 4.200E-06 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 4.200E-06 g / btu | USEPA 2012 |
| Heat content | 1990 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1991 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1992 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1993 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1994 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1995 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1996 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1997 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1998 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1999 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2000 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2001 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2002 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2003 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2004 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2005 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2006 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2007 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2008 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2009 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2010 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2011 | 15,380,000 btu / ton | USEPA 2012 |

IPCC category = 1A4a — Fuel Combustion Activities - Other Sectors - Commercial/Institutional

► Sector = Communication : Other Message Communications

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 4,309,334,027 scf | TSD General |
| Fuel combustion - Natural gas | 1991 | 4,094,629,159 scf | TSD General |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------------------|------|-------------------|-------------|
| Fuel combustion - Natural gas | 1992 | 2,508,232,472 scf | TSD General |
| Fuel combustion - Natural gas | 1993 | 2,932,401,816 scf | TSD General |
| Fuel combustion - Natural gas | 1994 | 3,414,378,174 scf | TSD General |
| Fuel combustion - Natural gas | 1995 | 2,938,413,194 scf | TSD General |
| Fuel combustion - Natural gas | 1996 | 2,446,698,554 scf | TSD General |
| Fuel combustion - Natural gas | 1997 | 2,651,880,728 scf | TSD General |
| Fuel combustion - Natural gas | 1998 | 3,282,233,630 scf | TSD General |
| Fuel combustion - Natural gas | 1999 | 2,961,406,858 scf | TSD General |
| Fuel combustion - Natural gas | 2000 | 3,115,504,590 scf | TSD General |
| Fuel combustion - Natural gas | 2001 | 2,890,666,606 scf | TSD General |
| Fuel combustion - Natural gas | 2002 | 2,822,123,845 scf | TSD General |
| Fuel combustion - Natural gas | 2003 | 2,918,304,670 scf | TSD General |
| Fuel combustion - Natural gas | 2004 | 3,025,333,930 scf | TSD General |
| Fuel combustion - Natural gas | 2005 | 2,914,009,638 scf | TSD General |
| Fuel combustion - Natural gas | 2006 | 3,184,040,329 scf | TSD General |
| Fuel combustion - Natural gas | 2007 | 3,164,296,516 scf | TSD General |
| Fuel combustion - Natural gas | 2008 | 2,935,989,919 scf | TSD General |
| Fuel combustion - Natural gas | 2009 | 2,735,650,236 scf | TSD General |
| Fuel combustion - Natural gas | 2010 | 2,365,008,827 scf | TSD General |
| Fuel combustion - Natural gas | 2011 | 2,449,063,799 scf | TSD General |
| Fuel CH4 emission | 1990 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Communication : Radio Broadcasting Stations

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 250,994,150 scf | TSD General |
| Fuel combustion - Natural gas | 1991 | 239,139,076 scf | TSD General |
| Fuel combustion - Natural gas | 1992 | 234,349,047 scf | TSD General |
| Fuel combustion - Natural gas | 1993 | 239,625,117 scf | TSD General |
| Fuel combustion - Natural gas | 1994 | 254,792,952 scf | TSD General |
| Fuel combustion - Natural gas | 1995 | 272,934,788 scf | TSD General |
| Fuel combustion - Natural gas | 1996 | 214,056,450 scf | TSD General |
| Fuel combustion - Natural gas | 1997 | 228,388,550 scf | TSD General |
| Fuel combustion - Natural gas | 1998 | 266,728,753 scf | TSD General |
| Fuel combustion - Natural gas | 1999 | 235,489,444 scf | TSD General |
| Fuel combustion - Natural gas | 2000 | 177,715,763 scf | TSD General |
| Fuel combustion - Natural gas | 2001 | 93,179,131 scf | TSD General |
| Fuel combustion - Natural gas | 2002 | 79,553,665 scf | TSD General |
| Fuel combustion - Natural gas | 2003 | 152,146,977 scf | TSD General |
| Fuel combustion - Natural gas | 2004 | 126,323,381 scf | TSD General |
| Fuel combustion - Natural gas | 2005 | 94,016,741 scf | TSD General |
| Fuel combustion - Natural gas | 2006 | 130,541,140 scf | TSD General |
| Fuel combustion - Natural gas | 2007 | 139,182,560 scf | TSD General |
| Fuel combustion - Natural gas | 2008 | 137,824,738 scf | TSD General |
| Fuel combustion - Natural gas | 2009 | 128,199,526 scf | TSD General |
| Fuel combustion - Natural gas | 2010 | 120,515,143 scf | TSD General |
| Fuel combustion - Natural gas | 2011 | 123,694,146 scf | TSD General |
| Fuel CH4 emission | 1990 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|-----------------|------------|
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Communication : Telephone & Cell Phone Services

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 793,080,699 scf | TSD General |
| Fuel combustion - Natural gas | 1991 | 1,119,427,062 scf | TSD General |
| Fuel combustion - Natural gas | 1992 | 1,272,362,591 scf | TSD General |
| Fuel combustion - Natural gas | 1993 | 724,024,310 scf | TSD General |
| Fuel combustion - Natural gas | 1994 | 1,069,981,518 scf | TSD General |
| Fuel combustion - Natural gas | 1995 | 1,013,336,829 scf | TSD General |
| Fuel combustion - Natural gas | 1996 | 5,105,484,383 scf | TSD General |
| Fuel combustion - Natural gas | 1997 | 935,150,033 scf | TSD General |
| Fuel combustion - Natural gas | 1998 | 920,429,775 scf | TSD General |
| Fuel combustion - Natural gas | 1999 | 746,890,859 scf | TSD General |
| Fuel combustion - Natural gas | 2000 | 649,091,895 scf | TSD General |
| Fuel combustion - Natural gas | 2001 | 563,877,788 scf | TSD General |
| Fuel combustion - Natural gas | 2002 | 485,271,648 scf | TSD General |
| Fuel combustion - Natural gas | 2003 | 321,766,145 scf | TSD General |
| Fuel combustion - Natural gas | 2004 | 283,362,480 scf | TSD General |
| Fuel combustion - Natural gas | 2005 | 304,704,824 scf | TSD General |
| Fuel combustion - Natural gas | 2006 | 278,134,225 scf | TSD General |
| Fuel combustion - Natural gas | 2007 | 190,585,820 scf | TSD General |
| Fuel combustion - Natural gas | 2008 | 196,623,432 scf | TSD General |
| Fuel combustion - Natural gas | 2009 | 204,153,435 scf | TSD General |
| Fuel combustion - Natural gas | 2010 | 235,615,899 scf | TSD General |
| Fuel combustion - Natural gas | 2011 | 189,599,883 scf | TSD General |
| Fuel CH4 emission | 1990 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|-----------------|------------|
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Communication : U.S. Postal Service

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 407,996,504 scf | TSD General |
| Fuel combustion - Natural gas | 1991 | 444,078,652 scf | TSD General |
| Fuel combustion - Natural gas | 1992 | 395,978,354 scf | TSD General |
| Fuel combustion - Natural gas | 1993 | 373,323,246 scf | TSD General |
| Fuel combustion - Natural gas | 1994 | 480,528,038 scf | TSD General |
| Fuel combustion - Natural gas | 1995 | 553,612,988 scf | TSD General |
| Fuel combustion - Natural gas | 1996 | 520,267,982 scf | TSD General |
| Fuel combustion - Natural gas | 1997 | 400,413,594 scf | TSD General |
| Fuel combustion - Natural gas | 1998 | 530,594,097 scf | TSD General |
| Fuel combustion - Natural gas | 1999 | 435,411,527 scf | TSD General |
| Fuel combustion - Natural gas | 2000 | 383,175,648 scf | TSD General |
| Fuel combustion - Natural gas | 2001 | 379,153,831 scf | TSD General |
| Fuel combustion - Natural gas | 2002 | 358,218,272 scf | TSD General |
| Fuel combustion - Natural gas | 2003 | 342,689,096 scf | TSD General |
| Fuel combustion - Natural gas | 2004 | 276,159,260 scf | TSD General |
| Fuel combustion - Natural gas | 2005 | 151,811,799 scf | TSD General |
| Fuel combustion - Natural gas | 2006 | 239,012,486 scf | TSD General |
| Fuel combustion - Natural gas | 2007 | 320,647,546 scf | TSD General |
| Fuel combustion - Natural gas | 2008 | 346,096,144 scf | TSD General |
| Fuel combustion - Natural gas | 2009 | 337,429,530 scf | TSD General |
| Fuel combustion - Natural gas | 2010 | 290,888,157 scf | TSD General |
| Fuel combustion - Natural gas | 2011 | 286,123,901 scf | TSD General |
| Fuel CH4 emission | 1990 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|-----------------|------------|
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Domestic Utilities : Sewerage Systems

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 0 scf | TSD General |
| Fuel combustion - Natural gas | 1991 | 0 scf | TSD General |
| Fuel combustion - Natural gas | 1992 | 0 scf | TSD General |
| Fuel combustion - Natural gas | 1993 | 0 scf | TSD General |
| Fuel combustion - Natural gas | 1994 | 0 scf | TSD General |
| Fuel combustion - Natural gas | 1995 | 0 scf | TSD General |
| Fuel combustion - Natural gas | 1996 | 0 scf | TSD General |
| Fuel combustion - Natural gas | 1997 | 0 scf | TSD General |
| Fuel combustion - Natural gas | 1998 | 0 scf | TSD General |
| Fuel combustion - Natural gas | 1999 | 0 scf | TSD General |
| Fuel combustion - Natural gas | 2000 | 0 scf | TSD General |
| Fuel combustion - Natural gas | 2001 | 0 scf | TSD General |
| Fuel combustion - Natural gas | 2002 | 0 scf | TSD General |
| Fuel combustion - Natural gas | 2003 | 0 scf | TSD General |
| Fuel combustion - Natural gas | 2004 | 109 scf | TSD General |
| Fuel combustion - Natural gas | 2005 | 59,158 scf | TSD General |
| Fuel combustion - Natural gas | 2006 | 0 scf | TSD General |
| Fuel combustion - Natural gas | 2007 | 0 scf | TSD General |
| Fuel combustion - Natural gas | 2008 | 0 scf | TSD General |
| Fuel combustion - Natural gas | 2009 | 0 scf | TSD General |
| Fuel combustion - Natural gas | 2010 | 0 scf | TSD General |
| Fuel combustion - Natural gas | 2011 | 0 scf | TSD General |
| Fuel CH4 emission | 1990 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|-----------------|------------|
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Domestic Utilities : Water Supply

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 5,680,803,557 scf | TSD General |
| Fuel combustion - Natural gas | 1991 | 5,164,213,822 scf | TSD General |
| Fuel combustion - Natural gas | 1992 | 4,983,027,319 scf | TSD General |
| Fuel combustion - Natural gas | 1993 | 4,520,837,815 scf | TSD General |
| Fuel combustion - Natural gas | 1994 | 5,295,305,421 scf | TSD General |
| Fuel combustion - Natural gas | 1995 | 6,454,837,151 scf | TSD General |
| Fuel combustion - Natural gas | 1996 | 7,610,147,239 scf | TSD General |
| Fuel combustion - Natural gas | 1997 | 9,057,692,414 scf | TSD General |
| Fuel combustion - Natural gas | 1998 | 6,182,468,850 scf | TSD General |
| Fuel combustion - Natural gas | 1999 | 5,625,904,393 scf | TSD General |
| Fuel combustion - Natural gas | 2000 | 5,552,204,621 scf | TSD General |
| Fuel combustion - Natural gas | 2001 | 3,943,755,313 scf | TSD General |
| Fuel combustion - Natural gas | 2002 | 3,049,759,828 scf | TSD General |
| Fuel combustion - Natural gas | 2003 | 7,411,702,675 scf | TSD General |
| Fuel combustion - Natural gas | 2004 | 6,423,062,690 scf | TSD General |
| Fuel combustion - Natural gas | 2005 | 4,749,011,558 scf | TSD General |
| Fuel combustion - Natural gas | 2006 | 5,967,861,628 scf | TSD General |
| Fuel combustion - Natural gas | 2007 | 6,302,816,880 scf | TSD General |
| Fuel combustion - Natural gas | 2008 | 6,199,615,749 scf | TSD General |
| Fuel combustion - Natural gas | 2009 | 5,903,264,282 scf | TSD General |
| Fuel combustion - Natural gas | 2010 | 5,531,372,314 scf | TSD General |
| Fuel combustion - Natural gas | 2011 | 5,231,334,545 scf | TSD General |
| Fuel CH4 emission | 1990 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 5.000E-06 g / btu | IPCC, 2006a |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel CH4 emission | 2010 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|-----------------|------------|
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Education : College

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 16,359,486,740 scf | TSD General |
| Fuel combustion - Natural gas | 1991 | 16,777,955,198 scf | TSD General |
| Fuel combustion - Natural gas | 1992 | 16,131,253,030 scf | TSD General |
| Fuel combustion - Natural gas | 1993 | 14,657,521,192 scf | TSD General |
| Fuel combustion - Natural gas | 1994 | 14,437,321,939 scf | TSD General |
| Fuel combustion - Natural gas | 1995 | 15,513,908,719 scf | TSD General |
| Fuel combustion - Natural gas | 1996 | 13,266,645,798 scf | TSD General |
| Fuel combustion - Natural gas | 1997 | 13,254,714,275 scf | TSD General |
| Fuel combustion - Natural gas | 1998 | 17,409,321,949 scf | TSD General |
| Fuel combustion - Natural gas | 1999 | 15,258,453,352 scf | TSD General |
| Fuel combustion - Natural gas | 2000 | 14,762,043,603 scf | TSD General |
| Fuel combustion - Natural gas | 2001 | 12,062,595,944 scf | TSD General |
| Fuel combustion - Natural gas | 2002 | 11,698,961,144 scf | TSD General |
| Fuel combustion - Natural gas | 2003 | 11,502,629,963 scf | TSD General |
| Fuel combustion - Natural gas | 2004 | 11,455,681,295 scf | TSD General |
| Fuel combustion - Natural gas | 2005 | 12,483,015,296 scf | TSD General |
| Fuel combustion - Natural gas | 2006 | 11,749,638,281 scf | TSD General |
| Fuel combustion - Natural gas | 2007 | 11,820,111,680 scf | TSD General |
| Fuel combustion - Natural gas | 2008 | 10,763,854,815 scf | TSD General |
| Fuel combustion - Natural gas | 2009 | 11,201,537,248 scf | TSD General |
| Fuel combustion - Natural gas | 2010 | 11,358,466,001 scf | TSD General |
| Fuel combustion - Natural gas | 2011 | 11,323,308,146 scf | TSD General |
| Fuel CH4 emission | 1990 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 5.000E-06 g / btu | IPCC, 2006a |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel CH4 emission | 2008 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|-----------------|------------|
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Education : School

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 18,333,426,499 scf | TSD General |
| Fuel combustion - Natural gas | 1991 | 19,362,967,320 scf | TSD General |
| Fuel combustion - Natural gas | 1992 | 17,320,496,013 scf | TSD General |
| Fuel combustion - Natural gas | 1993 | 15,032,760,951 scf | TSD General |
| Fuel combustion - Natural gas | 1994 | 16,240,809,679 scf | TSD General |
| Fuel combustion - Natural gas | 1995 | 15,121,754,449 scf | TSD General |
| Fuel combustion - Natural gas | 1996 | 11,795,360,262 scf | TSD General |
| Fuel combustion - Natural gas | 1997 | 12,598,020,809 scf | TSD General |
| Fuel combustion - Natural gas | 1998 | 16,246,941,550 scf | TSD General |
| Fuel combustion - Natural gas | 1999 | 13,915,167,690 scf | TSD General |
| Fuel combustion - Natural gas | 2000 | 12,627,788,067 scf | TSD General |
| Fuel combustion - Natural gas | 2001 | 12,010,203,521 scf | TSD General |
| Fuel combustion - Natural gas | 2002 | 11,112,143,730 scf | TSD General |
| Fuel combustion - Natural gas | 2003 | 10,477,964,639 scf | TSD General |
| Fuel combustion - Natural gas | 2004 | 10,080,715,749 scf | TSD General |
| Fuel combustion - Natural gas | 2005 | 9,758,377,047 scf | TSD General |
| Fuel combustion - Natural gas | 2006 | 11,098,088,698 scf | TSD General |
| Fuel combustion - Natural gas | 2007 | 11,314,934,708 scf | TSD General |
| Fuel combustion - Natural gas | 2008 | 11,393,100,186 scf | TSD General |
| Fuel combustion - Natural gas | 2009 | 10,390,333,040 scf | TSD General |
| Fuel combustion - Natural gas | 2010 | 10,323,422,347 scf | TSD General |
| Fuel combustion - Natural gas | 2011 | 10,351,087,971 scf | TSD General |
| Fuel CH4 emission | 1990 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 5.000E-06 g / btu | IPCC, 2006a |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel CH4 emission | 2006 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|-----------------|------------|
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Food Services : Food & Liquor

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 1,209,299,211 scf | TSD General |
| Fuel combustion - Natural gas | 1991 | 1,187,777,035 scf | TSD General |
| Fuel combustion - Natural gas | 1992 | 960,718,126 scf | TSD General |
| Fuel combustion - Natural gas | 1993 | 872,215,310 scf | TSD General |
| Fuel combustion - Natural gas | 1994 | 874,155,691 scf | TSD General |
| Fuel combustion - Natural gas | 1995 | 859,711,356 scf | TSD General |
| Fuel combustion - Natural gas | 1996 | 651,217,241 scf | TSD General |
| Fuel combustion - Natural gas | 1997 | 669,755,470 scf | TSD General |
| Fuel combustion - Natural gas | 1998 | 725,002,421 scf | TSD General |
| Fuel combustion - Natural gas | 1999 | 595,031,952 scf | TSD General |
| Fuel combustion - Natural gas | 2000 | 578,598,476 scf | TSD General |
| Fuel combustion - Natural gas | 2001 | 4,001,200,001 scf | TSD General |
| Fuel combustion - Natural gas | 2002 | 3,656,087,430 scf | TSD General |
| Fuel combustion - Natural gas | 2003 | 14,395,518,807 scf | TSD General |
| Fuel combustion - Natural gas | 2004 | 11,946,531,459 scf | TSD General |
| Fuel combustion - Natural gas | 2005 | 12,046,612,158 scf | TSD General |
| Fuel combustion - Natural gas | 2006 | 10,777,537,023 scf | TSD General |
| Fuel combustion - Natural gas | 2007 | 10,583,299,702 scf | TSD General |
| Fuel combustion - Natural gas | 2008 | 10,234,738,449 scf | TSD General |
| Fuel combustion - Natural gas | 2009 | 9,357,098,228 scf | TSD General |
| Fuel combustion - Natural gas | 2010 | 8,978,588,105 scf | TSD General |
| Fuel combustion - Natural gas | 2011 | 9,040,532,926 scf | TSD General |
| Fuel CH4 emission | 1990 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 5.000E-06 g / btu | IPCC, 2006a |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel CH4 emission | 2004 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|-----------------|------------|
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Food Services : Restaurant

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 40,610,550,880 scf | TSD General |
| Fuel combustion - Natural gas | 1991 | 41,700,038,792 scf | TSD General |
| Fuel combustion - Natural gas | 1992 | 43,883,574,930 scf | TSD General |
| Fuel combustion - Natural gas | 1993 | 39,134,894,287 scf | TSD General |
| Fuel combustion - Natural gas | 1994 | 40,777,388,262 scf | TSD General |
| Fuel combustion - Natural gas | 1995 | 46,112,164,637 scf | TSD General |
| Fuel combustion - Natural gas | 1996 | 38,083,382,227 scf | TSD General |
| Fuel combustion - Natural gas | 1997 | 42,157,186,661 scf | TSD General |
| Fuel combustion - Natural gas | 1998 | 46,634,019,511 scf | TSD General |
| Fuel combustion - Natural gas | 1999 | 39,971,966,109 scf | TSD General |
| Fuel combustion - Natural gas | 2000 | 41,945,537,297 scf | TSD General |
| Fuel combustion - Natural gas | 2001 | 40,244,084,036 scf | TSD General |
| Fuel combustion - Natural gas | 2002 | 42,037,753,752 scf | TSD General |
| Fuel combustion - Natural gas | 2003 | 31,964,689,070 scf | TSD General |
| Fuel combustion - Natural gas | 2004 | 33,013,914,982 scf | TSD General |
| Fuel combustion - Natural gas | 2005 | 35,442,403,711 scf | TSD General |
| Fuel combustion - Natural gas | 2006 | 39,552,160,961 scf | TSD General |
| Fuel combustion - Natural gas | 2007 | 40,651,994,436 scf | TSD General |
| Fuel combustion - Natural gas | 2008 | 40,462,695,572 scf | TSD General |
| Fuel combustion - Natural gas | 2009 | 37,335,241,582 scf | TSD General |
| Fuel combustion - Natural gas | 2010 | 37,193,614,844 scf | TSD General |
| Fuel combustion - Natural gas | 2011 | 37,094,037,599 scf | TSD General |
| Fuel CH4 emission | 1990 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 5.000E-06 g / btu | IPCC, 2006a |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel CH4 emission | 2002 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|-----------------|------------|
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Health Care

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 39,512,196,990 scf | TSD General |
| Fuel combustion - Natural gas | 1991 | 41,062,875,818 scf | TSD General |
| Fuel combustion - Natural gas | 1992 | 38,108,037,375 scf | TSD General |
| Fuel combustion - Natural gas | 1993 | 34,656,203,913 scf | TSD General |
| Fuel combustion - Natural gas | 1994 | 36,399,200,726 scf | TSD General |
| Fuel combustion - Natural gas | 1995 | 40,084,080,338 scf | TSD General |
| Fuel combustion - Natural gas | 1996 | 31,086,725,220 scf | TSD General |
| Fuel combustion - Natural gas | 1997 | 33,178,115,693 scf | TSD General |
| Fuel combustion - Natural gas | 1998 | 36,487,559,478 scf | TSD General |
| Fuel combustion - Natural gas | 1999 | 31,347,942,252 scf | TSD General |
| Fuel combustion - Natural gas | 2000 | 31,039,963,633 scf | TSD General |
| Fuel combustion - Natural gas | 2001 | 31,855,157,339 scf | TSD General |
| Fuel combustion - Natural gas | 2002 | 30,456,356,750 scf | TSD General |
| Fuel combustion - Natural gas | 2003 | 29,637,865,055 scf | TSD General |
| Fuel combustion - Natural gas | 2004 | 28,331,510,008 scf | TSD General |
| Fuel combustion - Natural gas | 2005 | 29,567,922,062 scf | TSD General |
| Fuel combustion - Natural gas | 2006 | 30,970,144,689 scf | TSD General |
| Fuel combustion - Natural gas | 2007 | 31,449,660,850 scf | TSD General |
| Fuel combustion - Natural gas | 2008 | 31,698,869,978 scf | TSD General |
| Fuel combustion - Natural gas | 2009 | 30,333,618,876 scf | TSD General |
| Fuel combustion - Natural gas | 2010 | 31,169,724,800 scf | TSD General |
| Fuel combustion - Natural gas | 2011 | 31,712,125,302 scf | TSD General |
| Fuel CH4 emission | 1990 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 5.000E-06 g / btu | IPCC, 2006a |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel CH4 emission | 2000 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|-----------------|------------|
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Hotels

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 17,563,727,636 scf | TSD General |
| Fuel combustion - Natural gas | 1991 | 18,104,524,524 scf | TSD General |
| Fuel combustion - Natural gas | 1992 | 18,637,916,941 scf | TSD General |
| Fuel combustion - Natural gas | 1993 | 15,602,357,536 scf | TSD General |
| Fuel combustion - Natural gas | 1994 | 16,089,974,402 scf | TSD General |
| Fuel combustion - Natural gas | 1995 | 17,810,535,319 scf | TSD General |
| Fuel combustion - Natural gas | 1996 | 14,235,932,568 scf | TSD General |
| Fuel combustion - Natural gas | 1997 | 15,618,705,407 scf | TSD General |
| Fuel combustion - Natural gas | 1998 | 16,775,665,751 scf | TSD General |
| Fuel combustion - Natural gas | 1999 | 14,124,428,646 scf | TSD General |
| Fuel combustion - Natural gas | 2000 | 14,195,312,400 scf | TSD General |
| Fuel combustion - Natural gas | 2001 | 14,946,910,343 scf | TSD General |
| Fuel combustion - Natural gas | 2002 | 14,319,893,023 scf | TSD General |
| Fuel combustion - Natural gas | 2003 | 13,891,433,575 scf | TSD General |
| Fuel combustion - Natural gas | 2004 | 13,339,705,339 scf | TSD General |
| Fuel combustion - Natural gas | 2005 | 14,108,331,840 scf | TSD General |
| Fuel combustion - Natural gas | 2006 | 15,221,607,417 scf | TSD General |
| Fuel combustion - Natural gas | 2007 | 15,834,224,611 scf | TSD General |
| Fuel combustion - Natural gas | 2008 | 16,002,219,592 scf | TSD General |
| Fuel combustion - Natural gas | 2009 | 14,776,931,267 scf | TSD General |
| Fuel combustion - Natural gas | 2010 | 15,037,503,303 scf | TSD General |
| Fuel combustion - Natural gas | 2011 | 15,088,162,662 scf | TSD General |
| Fuel CH4 emission | 1990 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 5.000E-06 g / btu | IPCC, 2006a |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel CH4 emission | 1998 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | IPCC, 2006a |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = National Security

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 18,974,371,616 scf | TSD General |
| Fuel combustion - Natural gas | 1991 | 20,009,181,149 scf | TSD General |
| Fuel combustion - Natural gas | 1992 | 19,984,577,531 scf | TSD General |
| Fuel combustion - Natural gas | 1993 | 16,051,300,130 scf | TSD General |
| Fuel combustion - Natural gas | 1994 | 14,157,674,948 scf | TSD General |
| Fuel combustion - Natural gas | 1995 | 12,369,572,539 scf | TSD General |
| Fuel combustion - Natural gas | 1996 | 9,132,776,447 scf | TSD General |
| Fuel combustion - Natural gas | 1997 | 6,381,491,683 scf | TSD General |
| Fuel combustion - Natural gas | 1998 | 7,507,941,516 scf | TSD General |
| Fuel combustion - Natural gas | 1999 | 5,781,999,855 scf | TSD General |
| Fuel combustion - Natural gas | 2000 | 4,526,965,075 scf | TSD General |
| Fuel combustion - Natural gas | 2001 | 6,917,629,967 scf | TSD General |
| Fuel combustion - Natural gas | 2002 | 3,823,332,466 scf | TSD General |
| Fuel combustion - Natural gas | 2003 | 3,855,166,754 scf | TSD General |
| Fuel combustion - Natural gas | 2004 | 3,908,269,101 scf | TSD General |
| Fuel combustion - Natural gas | 2005 | 3,811,760,467 scf | TSD General |
| Fuel combustion - Natural gas | 2006 | 4,237,092,223 scf | TSD General |
| Fuel combustion - Natural gas | 2007 | 4,141,200,454 scf | TSD General |
| Fuel combustion - Natural gas | 2008 | 3,818,550,926 scf | TSD General |
| Fuel combustion - Natural gas | 2009 | 3,690,982,013 scf | TSD General |
| Fuel combustion - Natural gas | 2010 | 3,502,748,234 scf | TSD General |
| Fuel combustion - Natural gas | 2011 | 3,656,756,861 scf | TSD General |
| Fuel CH4 emission | 1990 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 5.000E-06 g / btu | IPCC, 2006a |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel CH4 emission | 1995 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | IPCC, 2006a |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Not Specified Commercial

Activity = Fuel combustion - Coal

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|------------------------|----------|---------------------|---------------|
| Fuel combustion - Coal | 1990 | 20,073 ton | EIA, 2013e |
| Fuel combustion - Coal | 1991 | 36,351 ton | EIA, 2013e |
| Fuel combustion - Coal | 1992 | 158 ton | EIA, 2013e |
| Fuel combustion - Coal | 1993 | 116,381 ton | EIA, 2013e |
| Fuel combustion - Coal | 1994 | 141,219 ton | EIA, 2013e |
| Fuel combustion - Coal | 1995 | 115,583 ton | EIA, 2013e |
| Fuel combustion - Coal | 1996 | 155,811 ton | EIA, 2013e |
| Fuel combustion - Coal | 1997 | 96,637 ton | EIA, 2013e |
| Fuel combustion - Coal | 1998 | 102,694 ton | EIA, 2013e |
| Fuel combustion - Coal | 1999 | 24,256 ton | EIA, 2013e |
| Fuel combustion - Coal | 2000 | 21,028 ton | EIA, 2013e |
| Fuel combustion - Coal | 2001 | 21.4 ton | EIA, 2013e |
| Fuel combustion - Coal | 2002 | 38.7 ton | EIA, 2013e |
| Fuel combustion - Coal | 2003 | 188 ton | EIA, 2013e |
| Fuel combustion - Coal | 2004 | 7,502 ton | EIA, 2013e |
| Fuel combustion - Coal | 2005 | 18,082 ton | EIA, 2013e |
| Fuel combustion - Coal | 2006 | 1,282 ton | EIA, 2013e |
| Fuel combustion - Coal | 2007 | 0 ton | EIA, 2013e |
| Fuel combustion - Coal | 2008 | 0 ton | EIA, 2013e |
| Fuel combustion - Coal | 2009 | 0 ton | EIA, 2013e |
| Fuel combustion - Coal | 2010 | 0 ton | EIA, 2013e |
| Fuel combustion - Coal | 2011 | 0 ton | EIA, 2013e |
| Fuel CH4 emission | 1990 | 1.100E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 1.100E-05 g / btu | IPCC, 2006a |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel CH4 emission | 1992 | 1.100E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 1.100E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 1.100E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 1.100E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 1.100E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 1.100E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 1.100E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 1.100E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 1.100E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 1.100E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 1.100E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 1.100E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 1.100E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 1.100E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 1.100E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 1.100E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 1.100E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 1.100E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 1.100E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 1.100E-05 g / btu | IPCC, 2006a |
| Fuel CO2 emission | 1990 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.0934 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 1.600E-06 g / btu | IPCC, 2006a |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|----------------------|-------------|
| Fuel N2O emission | 2004 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 1.600E-06 g / btu | IPCC, 2006a |
| Heat content | 1990 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1991 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1992 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1993 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1994 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1995 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1996 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1997 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1998 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1999 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2000 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2001 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2002 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2003 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2004 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2005 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2006 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2007 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2008 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2009 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2010 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2011 | 24,930,000 btu / ton | USEPA 2012 |

Activity = Fuel combustion - Distillate

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|------------------------------|----------|---------------------|-----------------------------------|
| Fuel combustion - Distillate | 1990 | 192,228,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1991 | 186,788,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1992 | 83,787,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1993 | 66,780,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1994 | 63,103,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1995 | 98,146,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1996 | 73,223,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1997 | 82,090,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1998 | 102,852,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1999 | 68,215,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2000 | 83,765,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2001 | 79,000,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2002 | 77,901,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2003 | 70,872,500 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2004 | 63,844,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2005 | 86,397,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2006 | 66,071,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2007 | 73,720,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2008 | 102,903,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2009 | 133,222,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2010 | 155,074,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2011 | 157,165,500 gal | EIA Petroleum (used 1/2 of value) |
| Fuel CH4 emission | 1990 | 1.000E-05 g / btu | IPCC, 2006a |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel CH4 emission | 1991 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CO2 emission | 1990 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.074 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | IPCC, 2006a |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | IPCC, 2006a |
| Heat content | 1990 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1991 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1992 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1993 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1994 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1995 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1996 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1997 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1998 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1999 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2000 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2003 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2004 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2005 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2006 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2009 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2010 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2011 | 138,000 btu / gal | USEPA 2012 |

Activity = Fuel combustion - Ethanol

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|---------------------------|----------|---------------------|---------------|
| Fuel combustion - Ethanol | 1990 | 274,468 gal | TSD General |
| Fuel combustion - Ethanol | 1991 | 296,919 gal | TSD General |
| Fuel combustion - Ethanol | 1992 | 25,198 gal | TSD General |
| Fuel combustion - Ethanol | 1993 | 13,526 gal | TSD General |
| Fuel combustion - Ethanol | 1994 | 18,379 gal | TSD General |
| Fuel combustion - Ethanol | 1995 | 62,489 gal | TSD General |
| Fuel combustion - Ethanol | 1996 | 64,015 gal | TSD General |
| Fuel combustion - Ethanol | 1997 | 61,603 gal | TSD General |
| Fuel combustion - Ethanol | 1998 | 40,595 gal | TSD General |
| Fuel combustion - Ethanol | 1999 | 32,920 gal | TSD General |
| Fuel combustion - Ethanol | 2000 | 37,454 gal | TSD General |
| Fuel combustion - Ethanol | 2001 | 51,894 gal | TSD General |
| Fuel combustion - Ethanol | 2002 | 61,403 gal | TSD General |
| Fuel combustion - Ethanol | 2003 | 356,517 gal | TSD General |
| Fuel combustion - Ethanol | 2004 | 535,110 gal | TSD General |
| Fuel combustion - Ethanol | 2005 | 565,807 gal | TSD General |
| Fuel combustion - Ethanol | 2006 | 582,621 gal | TSD General |
| Fuel combustion - Ethanol | 2007 | 587,549 gal | TSD General |
| Fuel combustion - Ethanol | 2008 | 652,334 gal | TSD General |
| Fuel combustion - Ethanol | 2009 | 668,678 gal | TSD General |
| Fuel combustion - Ethanol | 2010 | 1,031,235 gal | TSD General |
| Fuel combustion - Ethanol | 2011 | 1,114,312 gal | TSD General |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.0684 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1991 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1992 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1993 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1994 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1995 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1996 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1997 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1998 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1999 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2000 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2003 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2004 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2005 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2006 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2009 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2010 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2011 | 84,000 btu / gal | USEPA 2012 |

Activity = Fuel combustion - Gasoline

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|----------------------------|----------|---------------------|---------------|
| Fuel combustion - Gasoline | 1990 | 81,520,532 gal | TSD General |
| Fuel combustion - Gasoline | 1991 | 68,752,081 gal | TSD General |
| Fuel combustion - Gasoline | 1992 | 62,689,802 gal | TSD General |
| Fuel combustion - Gasoline | 1993 | 9,421,474 gal | TSD General |
| Fuel combustion - Gasoline | 1994 | 9,533,621 gal | TSD General |
| Fuel combustion - Gasoline | 1995 | 9,606,511 gal | TSD General |
| Fuel combustion - Gasoline | 1996 | 9,623,985 gal | TSD General |
| Fuel combustion - Gasoline | 1997 | 9,610,397 gal | TSD General |
| Fuel combustion - Gasoline | 1998 | 9,724,405 gal | TSD General |
| Fuel combustion - Gasoline | 1999 | 9,826,080 gal | TSD General |
| Fuel combustion - Gasoline | 2000 | 9,914,546 gal | TSD General |
| Fuel combustion - Gasoline | 2001 | 10,197,106 gal | TSD General |
| Fuel combustion - Gasoline | 2002 | 10,291,597 gal | TSD General |
| Fuel combustion - Gasoline | 2003 | 9,958,483 gal | TSD General |
| Fuel combustion - Gasoline | 2004 | 9,741,890 gal | TSD General |
| Fuel combustion - Gasoline | 2005 | 9,673,193 gal | TSD General |
| Fuel combustion - Gasoline | 2006 | 9,942,379 gal | TSD General |
| Fuel combustion - Gasoline | 2007 | 10,008,451 gal | TSD General |
| Fuel combustion - Gasoline | 2008 | 10,028,666 gal | TSD General |
| Fuel combustion - Gasoline | 2009 | 10,097,322 gal | TSD General |
| Fuel combustion - Gasoline | 2010 | 9,818,765 gal | TSD General |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|----------------------------|------|-------------------|-------------|
| Fuel combustion - Gasoline | 2011 | 9,672,688 gal | TSD General |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.0712 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.0713 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.0715 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.0713 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.0708 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.0709 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.0709 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.0711 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.0711 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.0713 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.0717 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.0713 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.0713 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.0713 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.0713 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1991 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1992 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1993 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1994 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1995 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1996 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1997 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1998 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1999 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2000 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2003 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2004 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2005 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2006 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2009 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2010 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2011 | 125,000 btu / gal | USEPA 2012 |

Activity = Fuel combustion - Kerosene

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|----------------------------|----------|---------------------|---------------|
| Fuel combustion - Kerosene | 1990 | 2,641,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1991 | 3,671,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1992 | 835,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1993 | 796,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1994 | 524,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1995 | 1,122,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1996 | 2,889,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1997 | 1,737,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1998 | 2,663,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1999 | 1,204,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2000 | 2,194,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2001 | 2,647,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2002 | 1,147,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2003 | 1,987,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2004 | 3,016,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2005 | 2,464,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2006 | 2,277,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2007 | 1,297,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2008 | 619,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2009 | 794,000 gal | EIA, 2013d |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|----------------------------|------|-------------------|-------------|
| Fuel combustion - Kerosene | 2010 | 1,320,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2011 | 1,047,000 gal | EIA, 2013d |
| Fuel CH4 emission | 1990 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.0752 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | IPCC, 2006a |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1991 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1992 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1993 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1994 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1995 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1996 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1997 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1998 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1999 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2000 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2003 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2004 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2005 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2006 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2009 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2010 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2011 | 135,000 btu / gal | USEPA 2012 |

Activity = Fuel combustion - LPG

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-----------------------|----------|---------------------|---------------|
| Fuel combustion - LPG | 1990 | 73,038,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 1991 | 88,284,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 1992 | 60,984,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 1993 | 63,924,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 1994 | 62,916,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 1995 | 62,034,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 1996 | 51,786,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 1997 | 46,788,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 1998 | 77,364,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 1999 | 72,534,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 2000 | 67,662,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 2001 | 46,452,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 2002 | 54,054,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 2003 | 91,518,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 2004 | 129,192,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 2005 | 101,472,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 2006 | 75,264,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 2007 | 84,588,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 2008 | 109,200,000 gal | EIA, 2013e |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-----------------------|------|-------------------|-------------|
| Fuel combustion - LPG | 2009 | 87,234,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 2010 | 94,584,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 2011 | 94,878,000 gal | EIA, 2013e |
| Fuel CH4 emission | 1990 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CO2 emission | 1990 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.063 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | IPCC, 2006a |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | IPCC, 2006a |
| Heat content | 1990 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1991 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1992 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1993 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1994 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1995 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1996 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1997 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1998 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1999 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2000 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2003 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2004 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2005 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2006 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2009 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2010 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2011 | 92,000 btu / gal | USEPA 2012 |

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 65,691,179,035 scf | TSD General |
| Fuel combustion - Natural gas | 1991 | 67,071,498,113 scf | TSD General |
| Fuel combustion - Natural gas | 1992 | 67,011,507,549 scf | TSD General |
| Fuel combustion - Natural gas | 1993 | 60,107,594,026 scf | TSD General |
| Fuel combustion - Natural gas | 1994 | 63,262,522,841 scf | TSD General |
| Fuel combustion - Natural gas | 1995 | 70,946,992,537 scf | TSD General |
| Fuel combustion - Natural gas | 1996 | 58,609,853,315 scf | TSD General |
| Fuel combustion - Natural gas | 1997 | 62,218,308,680 scf | TSD General |
| Fuel combustion - Natural gas | 1998 | 68,828,866,611 scf | TSD General |
| Fuel combustion - Natural gas | 1999 | 58,426,136,499 scf | TSD General |
| Fuel combustion - Natural gas | 2000 | 56,040,727,337 scf | TSD General |
| Fuel combustion - Natural gas | 2001 | 61,722,649,211 scf | TSD General |
| Fuel combustion - Natural gas | 2002 | 59,508,761,462 scf | TSD General |
| Fuel combustion - Natural gas | 2003 | 64,780,989,571 scf | TSD General |
| Fuel combustion - Natural gas | 2004 | 62,133,416,049 scf | TSD General |
| Fuel combustion - Natural gas | 2005 | 63,247,102,320 scf | TSD General |
| Fuel combustion - Natural gas | 2006 | 63,413,451,667 scf | TSD General |
| Fuel combustion - Natural gas | 2007 | 63,419,587,950 scf | TSD General |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------------------|------|--------------------|-------------|
| Fuel combustion - Natural gas | 2008 | 62,344,408,655 scf | TSD General |
| Fuel combustion - Natural gas | 2009 | 58,511,826,231 scf | TSD General |
| Fuel combustion - Natural gas | 2010 | 58,558,172,172 scf | TSD General |
| Fuel combustion - Natural gas | 2011 | 58,536,819,709 scf | TSD General |
| Fuel CH4 emission | 1990 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | IPCC, 2006a |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

Activity = Fuel combustion - Residual fuel oil

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------------|----------|---------------------|---------------|
| Fuel combustion - Residual fuel oil | 1990 | 34,667,000 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 1991 | 32,135,000 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 1992 | 1,812,000 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 1993 | 803,000 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 1994 | 329,000 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 1995 | 179,000 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 1996 | 529,000 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 1997 | 73,000 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 1998 | 2,570,000 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 1999 | 0 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 2000 | 23,000 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 2001 | 1,287,000 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 2002 | 0 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 2003 | 0 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 2004 | 0 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 2005 | 0 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 2006 | 0 gal | EIA, 2013d |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------------------------|------|-------------------|-------------|
| Fuel combustion - Residual fuel oil | 2007 | 0 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 2008 | 0 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 2009 | 0 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 2010 | 0 gal | EIA, 2013d |
| Fuel combustion - Residual fuel oil | 2011 | 0 gal | EIA, 2013d |
| Fuel CH4 emission | 1990 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.0751 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.0751 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | IPCC, 2006a |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 1991 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 1992 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 1993 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 1994 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 1995 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 1996 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 1997 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 1998 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 1999 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2000 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2003 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2004 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2005 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2006 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2009 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2010 | 150,000 btu / gal | USEPA 2012 |
| Heat content | 2011 | 150,000 btu / gal | USEPA 2012 |

Activity = Fuel combustion - Wood (wet)

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|------------------------------|----------|---------------------|---------------|
| Fuel combustion - Wood (wet) | 1990 | 519,961 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 1991 | 542,783 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 1992 | 572,497 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 1993 | 522,237 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 1994 | 500,065 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 1995 | 504,746 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 1996 | 524,317 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 1997 | 409,168 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 1998 | 357,412 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 1999 | 375,813 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2000 | 402,211 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2001 | 406,697 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2002 | 416,515 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2003 | 433,680 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2004 | 423,992 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2005 | 270,091 ton | EIA, 2013e |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|------------------------------|------|-------------------|-------------------------------|
| Fuel combustion - Wood (wet) | 2006 | 250,585 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2007 | 266,060 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2008 | 280,819 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2009 | 279,129 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2010 | 275,618 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2011 | 275,618 ton | Assume equal to previous year |
| Fuel CH4 emission | 1990 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CO2 emission | 1990 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.0938 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 4.200E-06 g / btu | IPCC, 2006a |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|----------------------|-------------|
| Fuel N2O emission | 1996 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 4.200E-06 g / btu | IPCC, 2006a |
| Heat content | 1990 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1991 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1992 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1993 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1994 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1995 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1996 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1997 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1998 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1999 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2000 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2001 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2002 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2003 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2004 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2005 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2006 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2007 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2008 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2009 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2010 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2011 | 15,380,000 btu / ton | USEPA 2012 |

► Sector = Offices

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 18,425,742,713 scf | TSD General |
| Fuel combustion - Natural gas | 1991 | 18,300,543,624 scf | TSD General |
| Fuel combustion - Natural gas | 1992 | 16,741,461,064 scf | TSD General |
| Fuel combustion - Natural gas | 1993 | 14,312,868,151 scf | TSD General |
| Fuel combustion - Natural gas | 1994 | 15,948,719,965 scf | TSD General |
| Fuel combustion - Natural gas | 1995 | 15,772,108,937 scf | TSD General |
| Fuel combustion - Natural gas | 1996 | 12,616,896,720 scf | TSD General |
| Fuel combustion - Natural gas | 1997 | 13,690,737,538 scf | TSD General |
| Fuel combustion - Natural gas | 1998 | 19,111,667,564 scf | TSD General |
| Fuel combustion - Natural gas | 1999 | 16,689,377,986 scf | TSD General |
| Fuel combustion - Natural gas | 2000 | 17,174,786,615 scf | TSD General |
| Fuel combustion - Natural gas | 2001 | 12,343,451,454 scf | TSD General |
| Fuel combustion - Natural gas | 2002 | 12,129,985,653 scf | TSD General |
| Fuel combustion - Natural gas | 2003 | 13,492,568,248 scf | TSD General |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------------------|------|--------------------|-------------|
| Fuel combustion - Natural gas | 2004 | 13,778,833,687 scf | TSD General |
| Fuel combustion - Natural gas | 2005 | 14,155,909,542 scf | TSD General |
| Fuel combustion - Natural gas | 2006 | 14,797,245,801 scf | TSD General |
| Fuel combustion - Natural gas | 2007 | 13,266,162,413 scf | TSD General |
| Fuel combustion - Natural gas | 2008 | 15,225,231,184 scf | TSD General |
| Fuel combustion - Natural gas | 2009 | 14,148,113,677 scf | TSD General |
| Fuel combustion - Natural gas | 2010 | 14,125,851,880 scf | TSD General |
| Fuel combustion - Natural gas | 2011 | 14,192,819,067 scf | TSD General |
| Fuel CH4 emission | 1990 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | IPCC, 2006a |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Retail & Wholesale : Refrigerated Warehousing

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 6,943,448,975 scf | TSD General |
| Fuel combustion - Natural gas | 1991 | 4,358,623,125 scf | TSD General |
| Fuel combustion - Natural gas | 1992 | 2,929,621,787 scf | TSD General |
| Fuel combustion - Natural gas | 1993 | 4,217,688,752 scf | TSD General |
| Fuel combustion - Natural gas | 1994 | 4,926,195,405 scf | TSD General |
| Fuel combustion - Natural gas | 1995 | 1,936,561,907 scf | TSD General |
| Fuel combustion - Natural gas | 1996 | 1,621,042,256 scf | TSD General |
| Fuel combustion - Natural gas | 1997 | 1,662,513,534 scf | TSD General |
| Fuel combustion - Natural gas | 1998 | 2,189,345,177 scf | TSD General |
| Fuel combustion - Natural gas | 1999 | 1,738,184,009 scf | TSD General |
| Fuel combustion - Natural gas | 2000 | 1,898,467,580 scf | TSD General |
| Fuel combustion - Natural gas | 2001 | 2,434,708,863 scf | TSD General |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------------------|------|-------------------|-------------|
| Fuel combustion - Natural gas | 2002 | 2,527,593,280 scf | TSD General |
| Fuel combustion - Natural gas | 2003 | 1,898,155,179 scf | TSD General |
| Fuel combustion - Natural gas | 2004 | 1,902,167,791 scf | TSD General |
| Fuel combustion - Natural gas | 2005 | 1,975,864,780 scf | TSD General |
| Fuel combustion - Natural gas | 2006 | 1,802,426,295 scf | TSD General |
| Fuel combustion - Natural gas | 2007 | 1,830,269,941 scf | TSD General |
| Fuel combustion - Natural gas | 2008 | 1,727,364,765 scf | TSD General |
| Fuel combustion - Natural gas | 2009 | 1,544,164,289 scf | TSD General |
| Fuel combustion - Natural gas | 2010 | 1,557,117,722 scf | TSD General |
| Fuel combustion - Natural gas | 2011 | 1,629,933,015 scf | TSD General |
| Fuel CH4 emission | 1990 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | IPCC, 2006a |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Retail & Wholesale : Retail

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 13,557,927,577 scf | TSD General |
| Fuel combustion - Natural gas | 1991 | 12,845,874,178 scf | TSD General |
| Fuel combustion - Natural gas | 1992 | 15,183,956,842 scf | TSD General |
| Fuel combustion - Natural gas | 1993 | 11,087,628,649 scf | TSD General |
| Fuel combustion - Natural gas | 1994 | 11,780,256,868 scf | TSD General |
| Fuel combustion - Natural gas | 1995 | 13,451,466,144 scf | TSD General |
| Fuel combustion - Natural gas | 1996 | 9,405,518,867 scf | TSD General |
| Fuel combustion - Natural gas | 1997 | 10,585,955,251 scf | TSD General |
| Fuel combustion - Natural gas | 1998 | 12,207,679,007 scf | TSD General |
| Fuel combustion - Natural gas | 1999 | 10,684,073,413 scf | TSD General |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------------------|------|--------------------|-------------|
| Fuel combustion - Natural gas | 2000 | 11,085,073,136 scf | TSD General |
| Fuel combustion - Natural gas | 2001 | 12,248,028,166 scf | TSD General |
| Fuel combustion - Natural gas | 2002 | 13,443,155,545 scf | TSD General |
| Fuel combustion - Natural gas | 2003 | 13,515,302,969 scf | TSD General |
| Fuel combustion - Natural gas | 2004 | 13,370,112,484 scf | TSD General |
| Fuel combustion - Natural gas | 2005 | 13,696,732,493 scf | TSD General |
| Fuel combustion - Natural gas | 2006 | 15,161,658,474 scf | TSD General |
| Fuel combustion - Natural gas | 2007 | 15,421,979,934 scf | TSD General |
| Fuel combustion - Natural gas | 2008 | 14,584,285,351 scf | TSD General |
| Fuel combustion - Natural gas | 2009 | 14,942,286,680 scf | TSD General |
| Fuel combustion - Natural gas | 2010 | 15,106,592,104 scf | TSD General |
| Fuel combustion - Natural gas | 2011 | 15,363,532,184 scf | TSD General |
| Fuel CH4 emission | 1990 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Retail & Wholesale : Warehousing

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 5,551,444,750 scf | TSD General |
| Fuel combustion - Natural gas | 1991 | 5,547,652,022 scf | TSD General |
| Fuel combustion - Natural gas | 1992 | 7,870,912,660 scf | TSD General |
| Fuel combustion - Natural gas | 1993 | 4,874,627,698 scf | TSD General |
| Fuel combustion - Natural gas | 1994 | 4,708,432,330 scf | TSD General |
| Fuel combustion - Natural gas | 1995 | 5,718,636,385 scf | TSD General |
| Fuel combustion - Natural gas | 1996 | 4,347,390,420 scf | TSD General |
| Fuel combustion - Natural gas | 1997 | 4,756,174,411 scf | TSD General |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------------------|------|-------------------|-------------|
| Fuel combustion - Natural gas | 1998 | 5,851,038,930 scf | TSD General |
| Fuel combustion - Natural gas | 1999 | 5,208,081,708 scf | TSD General |
| Fuel combustion - Natural gas | 2000 | 5,284,945,455 scf | TSD General |
| Fuel combustion - Natural gas | 2001 | 4,763,203,571 scf | TSD General |
| Fuel combustion - Natural gas | 2002 | 4,839,101,636 scf | TSD General |
| Fuel combustion - Natural gas | 2003 | 5,292,729,635 scf | TSD General |
| Fuel combustion - Natural gas | 2004 | 4,762,239,983 scf | TSD General |
| Fuel combustion - Natural gas | 2005 | 5,360,124,886 scf | TSD General |
| Fuel combustion - Natural gas | 2006 | 5,633,561,648 scf | TSD General |
| Fuel combustion - Natural gas | 2007 | 5,083,216,768 scf | TSD General |
| Fuel combustion - Natural gas | 2008 | 4,946,067,499 scf | TSD General |
| Fuel combustion - Natural gas | 2009 | 4,481,218,964 scf | TSD General |
| Fuel combustion - Natural gas | 2010 | 4,536,070,126 scf | TSD General |
| Fuel combustion - Natural gas | 2011 | 4,468,528,850 scf | TSD General |
| Fuel CH4 emission | 1990 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Transportation Services : Airports

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 2,150,783,025 scf | TSD General |
| Fuel combustion - Natural gas | 1991 | 2,238,031,795 scf | TSD General |
| Fuel combustion - Natural gas | 1992 | 1,809,473,978 scf | TSD General |
| Fuel combustion - Natural gas | 1993 | 2,009,290,566 scf | TSD General |
| Fuel combustion - Natural gas | 1994 | 1,758,927,096 scf | TSD General |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------------------|------|-------------------|-------------|
| Fuel combustion - Natural gas | 1995 | 2,055,126,760 scf | TSD General |
| Fuel combustion - Natural gas | 1996 | 1,619,102,286 scf | TSD General |
| Fuel combustion - Natural gas | 1997 | 1,800,498,122 scf | TSD General |
| Fuel combustion - Natural gas | 1998 | 2,163,783,950 scf | TSD General |
| Fuel combustion - Natural gas | 1999 | 1,889,325,768 scf | TSD General |
| Fuel combustion - Natural gas | 2000 | 1,913,284,725 scf | TSD General |
| Fuel combustion - Natural gas | 2001 | 760,981,253 scf | TSD General |
| Fuel combustion - Natural gas | 2002 | 915,949,195 scf | TSD General |
| Fuel combustion - Natural gas | 2003 | 980,104,901 scf | TSD General |
| Fuel combustion - Natural gas | 2004 | 870,795,469 scf | TSD General |
| Fuel combustion - Natural gas | 2005 | 865,515,136 scf | TSD General |
| Fuel combustion - Natural gas | 2006 | 1,484,826,403 scf | TSD General |
| Fuel combustion - Natural gas | 2007 | 1,455,690,296 scf | TSD General |
| Fuel combustion - Natural gas | 2008 | 1,115,872,555 scf | TSD General |
| Fuel combustion - Natural gas | 2009 | 1,042,837,386 scf | TSD General |
| Fuel combustion - Natural gas | 2010 | 973,680,932 scf | TSD General |
| Fuel combustion - Natural gas | 2011 | 1,225,733,479 scf | TSD General |
| Fuel CH4 emission | 1990 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Transportation Services : Transportation

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 1,607,714,471 scf | TSD General |
| Fuel combustion - Natural gas | 1991 | 1,696,102,032 scf | TSD General |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------------------|------|--------------------|-------------|
| Fuel combustion - Natural gas | 1992 | 1,516,669,336 scf | TSD General |
| Fuel combustion - Natural gas | 1993 | 1,247,735,327 scf | TSD General |
| Fuel combustion - Natural gas | 1994 | 1,430,032,323 scf | TSD General |
| Fuel combustion - Natural gas | 1995 | 1,528,741,808 scf | TSD General |
| Fuel combustion - Natural gas | 1996 | 1,617,097,664 scf | TSD General |
| Fuel combustion - Natural gas | 1997 | 1,602,605,162 scf | TSD General |
| Fuel combustion - Natural gas | 1998 | 2,115,250,775 scf | TSD General |
| Fuel combustion - Natural gas | 1999 | 2,005,989,015 scf | TSD General |
| Fuel combustion - Natural gas | 2000 | 1,950,620,308 scf | TSD General |
| Fuel combustion - Natural gas | 2001 | 1,976,493,058 scf | TSD General |
| Fuel combustion - Natural gas | 2002 | 1,461,917,447 scf | TSD General |
| Fuel combustion - Natural gas | 2003 | 1,251,497,991 scf | TSD General |
| Fuel combustion - Natural gas | 2004 | 994,519,614 scf | TSD General |
| Fuel combustion - Natural gas | 2005 | 913,683,760 scf | TSD General |
| Fuel combustion - Natural gas | 2006 | 971,100,639 scf | TSD General |
| Fuel combustion - Natural gas | 2007 | 5,740,859,856 scf | TSD General |
| Fuel combustion - Natural gas | 2008 | 9,987,455,430 scf | TSD General |
| Fuel combustion - Natural gas | 2009 | 9,638,274,469 scf | TSD General |
| Fuel combustion - Natural gas | 2010 | 9,946,775,926 scf | TSD General |
| Fuel combustion - Natural gas | 2011 | 10,143,114,797 scf | TSD General |
| Fuel CH4 emission | 1990 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Transportation Services : Water Transportation

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 96,421,950 scf | TSD General |
| Fuel combustion - Natural gas | 1991 | 124,355,297 scf | TSD General |
| Fuel combustion - Natural gas | 1992 | 115,345,625 scf | TSD General |
| Fuel combustion - Natural gas | 1993 | 100,479,325 scf | TSD General |
| Fuel combustion - Natural gas | 1994 | 105,022,421 scf | TSD General |
| Fuel combustion - Natural gas | 1995 | 108,667,886 scf | TSD General |
| Fuel combustion - Natural gas | 1996 | 80,642,453 scf | TSD General |
| Fuel combustion - Natural gas | 1997 | 72,202,585 scf | TSD General |
| Fuel combustion - Natural gas | 1998 | 102,711,606 scf | TSD General |
| Fuel combustion - Natural gas | 1999 | 79,383,882 scf | TSD General |
| Fuel combustion - Natural gas | 2000 | 64,284,844 scf | TSD General |
| Fuel combustion - Natural gas | 2001 | 75,297,845 scf | TSD General |
| Fuel combustion - Natural gas | 2002 | 44,972,910 scf | TSD General |
| Fuel combustion - Natural gas | 2003 | 46,886,288 scf | TSD General |
| Fuel combustion - Natural gas | 2004 | 42,653,642 scf | TSD General |
| Fuel combustion - Natural gas | 2005 | 41,329,843 scf | TSD General |
| Fuel combustion - Natural gas | 2006 | 68,899,411 scf | TSD General |
| Fuel combustion - Natural gas | 2007 | 90,872,532 scf | TSD General |
| Fuel combustion - Natural gas | 2008 | 99,999,074 scf | TSD General |
| Fuel combustion - Natural gas | 2009 | 106,485,739 scf | TSD General |
| Fuel combustion - Natural gas | 2010 | 120,699,040 scf | TSD General |
| Fuel combustion - Natural gas | 2011 | 131,230,902 scf | TSD General |
| Fuel CH4 emission | 1990 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|-----------------|------------|
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

IPCC category = 1A4b — Fuel Combustion Activities - Other Sectors - Residential

► Sector = Household Use

Activity = Fuel combustion - Coal

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|------------------------|----------|---------------------|---------------|
| Fuel combustion - Coal | 1990 | 5,018 ton | EIA, 2013e |
| Fuel combustion - Coal | 1991 | 7,979 ton | EIA, 2013e |
| Fuel combustion - Coal | 1992 | 34.7 ton | EIA, 2013e |
| Fuel combustion - Coal | 1993 | 25,547 ton | EIA, 2013e |
| Fuel combustion - Coal | 1994 | 24,921 ton | EIA, 2013e |
| Fuel combustion - Coal | 1995 | 17,271 ton | EIA, 2013e |
| Fuel combustion - Coal | 1996 | 21,247 ton | EIA, 2013e |
| Fuel combustion - Coal | 1997 | 11,944 ton | EIA, 2013e |
| Fuel combustion - Coal | 1998 | 12,692 ton | EIA, 2013e |
| Fuel combustion - Coal | 1999 | 3,308 ton | EIA, 2013e |
| Fuel combustion - Coal | 2000 | 2,599 ton | EIA, 2013e |
| Fuel combustion - Coal | 2001 | 2.64 ton | EIA, 2013e |
| Fuel combustion - Coal | 2002 | 5.28 ton | EIA, 2013e |
| Fuel combustion - Coal | 2003 | 28.1 ton | EIA, 2013e |
| Fuel combustion - Coal | 2004 | 834 ton | EIA, 2013e |
| Fuel combustion - Coal | 2005 | 1,572 ton | EIA, 2013e |
| Fuel combustion - Coal | 2006 | 127 ton | EIA, 2013e |
| Fuel combustion - Coal | 2007 | 0 ton | EIA, 2013e |
| Fuel combustion - Coal | 2008 | 0 ton | EIA, 2013e |
| Fuel combustion - Coal | 2009 | 0 ton | EIA, 2013e |
| Fuel combustion - Coal | 2010 | 0 ton | EIA, 2013e |
| Fuel combustion - Coal | 2011 | 0 ton | EIA, 2013e |
| Fuel CH4 emission | 1990 | 3.300E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 3.300E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 3.300E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 3.300E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 3.300E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 3.300E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 3.300E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 3.300E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 3.300E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 3.300E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 3.300E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 3.300E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 3.300E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 3.300E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 3.300E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 3.300E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 3.300E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 3.300E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 3.300E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 3.300E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 3.300E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 3.300E-04 g / btu | IPCC, 2006a |
| Fuel CO2 emission | 1990 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.0934 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|----------------------|-------------|
| Fuel CO2 emission | 1994 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.0934 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.0934 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 1.600E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 1.600E-06 g / btu | IPCC, 2006a |
| Heat content | 1990 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1991 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1992 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1993 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1994 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1995 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1996 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1997 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1998 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 1999 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2000 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2001 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2002 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2003 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2004 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2005 | 24,930,000 btu / ton | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|----------------------|------------|
| Heat content | 2006 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2007 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2008 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2009 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2010 | 24,930,000 btu / ton | USEPA 2012 |
| Heat content | 2011 | 24,930,000 btu / ton | USEPA 2012 |

Activity = Fuel combustion - Distillate

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|------------------------------|----------|---------------------|---------------|
| Fuel combustion - Distillate | 1990 | 9,466,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1991 | 8,359,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1992 | 8,425,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1993 | 6,493,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1994 | 6,212,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1995 | 5,433,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1996 | 4,227,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1997 | 5,245,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1998 | 6,534,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1999 | 4,254,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2000 | 6,507,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2001 | 8,169,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2002 | 5,219,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2003 | 5,344,500 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2004 | 5,470,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2005 | 6,836,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2006 | 6,841,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2007 | 3,853,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2008 | 5,694,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2009 | 13,667,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2010 | 5,931,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2011 | 4,125,000 gal | EIA, 2013d |
| Fuel CH4 emission | 1990 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.074 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel CO2 emission | 1993 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.074 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1991 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1992 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1993 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1994 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1995 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1996 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1997 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1998 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1999 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2000 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2003 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2004 | 138,000 btu / gal | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| Heat content | 2005 | 138,000 btu / gal | USEPA 2012 |
|--|----------|---------------------|---------------|
| Heat content | 2006 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2009 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2010 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2011 | 138,000 btu / gal | USEPA 2012 |
| Activity = Fuel combustion - Kerosene | | | |
| - Variable Name - | - Year - | - Value and Units - | - Reference - |
| Fuel combustion - Kerosene | 1990 | 12,530,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1991 | 12,676,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1992 | 1,367,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1993 | 2,833,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1994 | 2,827,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1995 | 3,397,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1996 | 4,343,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1997 | 5,657,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1998 | 9,959,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1999 | 7,846,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2000 | 11,788,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2001 | 14,701,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2002 | 9,087,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2003 | 8,217,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2004 | 11,605,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2005 | 12,748,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2006 | 12,036,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2007 | 6,399,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2008 | 3,871,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2009 | 7,237,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2010 | 6,029,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2011 | 4,620,000 gal | EIA, 2013d |
| Fuel CH4 emission | 1990 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.0722 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel CO2 emission | 1992 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.0752 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1991 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1992 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1993 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1994 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1995 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1996 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1997 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1998 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1999 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2000 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2003 | 135,000 btu / gal | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|-------------------|------------|
| Heat content | 2004 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2005 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2006 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2009 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2010 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2011 | 135,000 btu / gal | USEPA 2012 |

Activity = Fuel combustion - LPG

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-----------------------|----------|---------------------|---------------|
| Fuel combustion - LPG | 1990 | 211,092,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 1991 | 255,234,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 1992 | 176,316,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 1993 | 184,842,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 1994 | 181,860,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 1995 | 179,298,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 1996 | 149,772,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 1997 | 135,324,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 1998 | 223,650,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 1999 | 209,664,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 2000 | 195,594,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 2001 | 134,274,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 2002 | 156,240,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 2003 | 224,028,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 2004 | 272,034,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 2005 | 309,330,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 2006 | 270,060,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 2007 | 286,398,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 2008 | 351,624,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 2009 | 330,078,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 2010 | 347,466,000 gal | EIA, 2013e |
| Fuel combustion - LPG | 2011 | 338,352,000 gal | EIA, 2013e |
| Fuel CH4 emission | 1990 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 1.500E-05 g / btu | IPCC, 2006a |
| Fuel CO2 emission | 1990 | 0.063 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel CO2 emission | 1991 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.063 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.063 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | IPCC, 2006a |
| Heat content | 1990 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1991 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1992 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1993 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1994 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1995 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1996 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1997 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1998 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 1999 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2000 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 92,000 btu / gal | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|------------------|------------|
| Heat content | 2003 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2004 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2005 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2006 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2009 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2010 | 92,000 btu / gal | USEPA 2012 |
| Heat content | 2011 | 92,000 btu / gal | USEPA 2012 |

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 504,200,372,649 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1991 | 513,499,389,469 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1992 | 490,756,600,886 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1993 | 495,608,750,616 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1994 | 519,561,820,786 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1995 | 475,986,056,173 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1996 | 469,079,716,320 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1997 | 472,991,714,914 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1998 | 524,554,686,567 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1999 | 567,646,136,490 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2000 | 551,180,032,002 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2001 | 508,001,142,318 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2002 | 508,207,915,545 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2003 | 491,830,731,827 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2004 | 504,898,183,277 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2005 | 477,442,749,211 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2006 | 489,145,335,794 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2007 | 488,318,290,979 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2008 | 487,348,198,133 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2009 | 481,775,625,128 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2010 | 497,732,508,809 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2011 | 508,651,553,294 scf | Gough, 2013 |
| Fuel CH4 emission | 1990 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|-----------------|------------|
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

Activity = Fuel combustion - Wood (wet)

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|------------------------------|----------|---------------------|---------------|
| Fuel combustion - Wood (wet) | 1990 | 4,757,542 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 1991 | 4,987,581 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 1992 | 5,232,835 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 1993 | 3,879,584 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 1994 | 3,682,510 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 1995 | 3,682,510 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 1996 | 3,824,187 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 1997 | 2,449,155 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 1998 | 2,176,398 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 1999 | 2,233,680 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2000 | 2,405,527 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2001 | 2,311,443 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2002 | 2,346,229 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2003 | 2,469,766 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2004 | 2,531,469 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2005 | 1,682,640 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2006 | 1,492,328 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2007 | 1,610,143 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2008 | 1,767,230 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2009 | 1,688,687 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2010 | 1,649,415 ton | EIA, 2013e |
| Fuel combustion - Wood (wet) | 2011 | 2,164,564 ton | EIA, 2013e |
| Fuel CH4 emission | 1990 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 3.200E-04 g / btu | IPCC, 2006a |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|----------------------|-------------|
| Fuel CH4 emission | 2011 | 3.200E-04 g / btu | IPCC, 2006a |
| Fuel CO2 emission | 1990 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.0938 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.0938 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 4.200E-06 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 4.200E-06 g / btu | IPCC, 2006a |
| Heat content | 1990 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1991 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1992 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1993 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1994 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1995 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1996 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1997 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1998 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 1999 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2000 | 15,380,000 btu / ton | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|----------------------|------------|
| Heat content | 2001 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2002 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2003 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2004 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2005 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2006 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2007 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2008 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2009 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2010 | 15,380,000 btu / ton | USEPA 2012 |
| Heat content | 2011 | 15,380,000 btu / ton | USEPA 2012 |

IPCC category = 1A4c — Fuel Combustion Activities - Other Sectors - Agriculture/Forestry/Fishing/Fish Farms

► Sector = Ag Energy Use

Activity = Fuel combustion - Distillate

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|------------------------------|----------|---------------------|---------------|
| Fuel combustion - Distillate | 1990 | 358,602,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1991 | 269,901,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1992 | 270,922,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1993 | 202,780,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1994 | 197,245,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1995 | 180,032,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1996 | 190,386,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1997 | 276,302,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1998 | 295,431,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1999 | 220,502,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2000 | 245,766,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2001 | 262,592,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2002 | 296,703,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2003 | 303,001,500 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2004 | 309,300,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2005 | 331,896,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2006 | 377,329,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2007 | 261,386,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2008 | 292,083,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2009 | 173,888,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2010 | 193,505,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2011 | 231,596,000 gal | EIA, 2013d |
| Fuel CH4 emission | 1990 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 1.000E-05 g / btu | IPCC, 2006a |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel CH4 emission | 2007 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.074 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1991 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1992 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1993 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1994 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1995 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1996 | 138,000 btu / gal | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|-------------------|------------|
| Heat content | 1997 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1998 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1999 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2000 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2003 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2004 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2005 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2006 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2009 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2010 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2011 | 138,000 btu / gal | USEPA 2012 |

Activity = Fuel combustion - Ethanol

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|---------------------------|----------|---------------------|---------------|
| Fuel combustion - Ethanol | 1990 | 133,182 gal | TSD General |
| Fuel combustion - Ethanol | 1991 | 213,944 gal | TSD General |
| Fuel combustion - Ethanol | 1992 | 20,572 gal | TSD General |
| Fuel combustion - Ethanol | 1993 | 83,158 gal | TSD General |
| Fuel combustion - Ethanol | 1994 | 120,420 gal | TSD General |
| Fuel combustion - Ethanol | 1995 | 419,858 gal | TSD General |
| Fuel combustion - Ethanol | 1996 | 437,006 gal | TSD General |
| Fuel combustion - Ethanol | 1997 | 438,882 gal | TSD General |
| Fuel combustion - Ethanol | 1998 | 293,952 gal | TSD General |
| Fuel combustion - Ethanol | 1999 | 119,227 gal | TSD General |
| Fuel combustion - Ethanol | 2000 | 130,769 gal | TSD General |
| Fuel combustion - Ethanol | 2001 | 216,474 gal | TSD General |
| Fuel combustion - Ethanol | 2002 | 270,611 gal | TSD General |
| Fuel combustion - Ethanol | 2003 | 1,621,347 gal | TSD General |
| Fuel combustion - Ethanol | 2004 | 3,099,649 gal | TSD General |
| Fuel combustion - Ethanol | 2005 | 3,285,318 gal | TSD General |
| Fuel combustion - Ethanol | 2006 | 3,577,600 gal | TSD General |
| Fuel combustion - Ethanol | 2007 | 2,035,239 gal | TSD General |
| Fuel combustion - Ethanol | 2008 | 1,162,549 gal | TSD General |
| Fuel combustion - Ethanol | 2009 | 1,192,826 gal | TSD General |
| Fuel combustion - Ethanol | 2010 | 1,898,708 gal | TSD General |
| Fuel combustion - Ethanol | 2011 | 7,529,532 gal | TSD General |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.0684 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.0684 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1991 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1992 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1993 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1994 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1995 | 84,000 btu / gal | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|------------------|------------|
| Heat content | 1996 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1997 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1998 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 1999 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2000 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2003 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2004 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2005 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2006 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2009 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2010 | 84,000 btu / gal | USEPA 2012 |
| Heat content | 2011 | 84,000 btu / gal | USEPA 2012 |

Activity = Fuel combustion - Gasoline

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|----------------------------|----------|---------------------|---------------|
| Fuel combustion - Gasoline | 1990 | 39,556,818 gal | TSD General |
| Fuel combustion - Gasoline | 1991 | 49,539,056 gal | TSD General |
| Fuel combustion - Gasoline | 1992 | 51,182,428 gal | TSD General |
| Fuel combustion - Gasoline | 1993 | 57,924,842 gal | TSD General |
| Fuel combustion - Gasoline | 1994 | 62,465,580 gal | TSD General |
| Fuel combustion - Gasoline | 1995 | 64,545,142 gal | TSD General |
| Fuel combustion - Gasoline | 1996 | 65,698,994 gal | TSD General |
| Fuel combustion - Gasoline | 1997 | 68,468,118 gal | TSD General |
| Fuel combustion - Gasoline | 1998 | 70,415,048 gal | TSD General |
| Fuel combustion - Gasoline | 1999 | 35,587,773 gal | TSD General |
| Fuel combustion - Gasoline | 2000 | 34,616,231 gal | TSD General |
| Fuel combustion - Gasoline | 2001 | 42,536,526 gal | TSD General |
| Fuel combustion - Gasoline | 2002 | 45,356,389 gal | TSD General |
| Fuel combustion - Gasoline | 2003 | 45,288,653 gal | TSD General |
| Fuel combustion - Gasoline | 2004 | 56,430,351 gal | TSD General |
| Fuel combustion - Gasoline | 2005 | 56,166,682 gal | TSD General |
| Fuel combustion - Gasoline | 2006 | 61,051,400 gal | TSD General |
| Fuel combustion - Gasoline | 2007 | 34,668,761 gal | TSD General |
| Fuel combustion - Gasoline | 2008 | 17,872,451 gal | TSD General |
| Fuel combustion - Gasoline | 2009 | 18,012,174 gal | TSD General |
| Fuel combustion - Gasoline | 2010 | 18,078,292 gal | TSD General |
| Fuel combustion - Gasoline | 2011 | 65,359,468 gal | TSD General |
| Fuel CH4 emission | 1990 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1991 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1992 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1993 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1994 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.0712 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.0713 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.0715 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.0713 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.0708 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.0709 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.0709 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.0711 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.0711 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.071 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.0713 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.0717 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.0713 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.0713 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.0713 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.0713 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1991 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1992 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1993 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1994 | 125,000 btu / gal | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|-------------------|------------|
| Heat content | 1995 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1996 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1997 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1998 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 1999 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2000 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2003 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2004 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2005 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2006 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2009 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2010 | 125,000 btu / gal | USEPA 2012 |
| Heat content | 2011 | 125,000 btu / gal | USEPA 2012 |

Activity = Fuel combustion - Kerosene

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|----------------------------|----------|---------------------|---------------|
| Fuel combustion - Kerosene | 1990 | 1,665,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1991 | 2,528,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1992 | 233,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1993 | 681,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1994 | 610,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1995 | 308,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1996 | 359,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1997 | 224,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1998 | 428,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 1999 | 1,479,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2000 | 643,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2001 | 481,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2002 | 285,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2003 | 351,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2004 | 486,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2005 | 470,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2006 | 738,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2007 | 350,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2008 | 157,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2009 | 331,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2010 | 351,000 gal | EIA, 2013d |
| Fuel combustion - Kerosene | 2011 | 163,000 gal | EIA, 2013d |
| Fuel CH4 emission | 1990 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 1.000E-05 g / btu | IPCC, 2006a |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel CH4 emission | 2004 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 1.000E-05 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.0752 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1991 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1992 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1993 | 135,000 btu / gal | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|-------------------|------------|
| Heat content | 1994 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1995 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1996 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1997 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1998 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1999 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2000 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2003 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2004 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2005 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2006 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2009 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2010 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2011 | 135,000 btu / gal | USEPA 2012 |

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 12,800,749 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1991 | 11,328,164 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1992 | 404,905,012 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1993 | 11,153,573 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1994 | 15,581,230 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1995 | 14,446,734 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1996 | 17,254,291 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1997 | 16,117,196 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1998 | 24,461,377 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1999 | 26,705,318 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2000 | 90,338,513 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2001 | 670,599,751 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2002 | 753,323,842 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2003 | 590,600,848 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2004 | 574,563,574 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2005 | 598,687,446 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2006 | 37,594,471 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2007 | 34,750,642 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2008 | 49,060,444 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2009 | 48,392,584 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2010 | 45,067,156 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2011 | 45,356,930 scf | Gough, 2013 |
| Fuel CH4 emission | 1990 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 5.000E-06 g / btu | IPCC, 2006a |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel CH4 emission | 2003 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|-----------------|------------|
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Ag Energy Use : Crop Production

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 10,417,596,654 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1991 | 9,363,229,035 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1992 | 7,609,917,975 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1993 | 8,216,078,736 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1994 | 11,345,337,113 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1995 | 10,314,897,778 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1996 | 12,179,608,578 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1997 | 13,184,580,244 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1998 | 13,948,028,234 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1999 | 16,064,858,495 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2000 | 17,582,959,646 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2001 | 11,756,741,910 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2002 | 14,886,693,390 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2003 | 13,630,356,406 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2004 | 13,269,722,429 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2005 | 10,962,610,532 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2006 | 14,905,864,220 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2007 | 12,908,638,262 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2008 | 12,218,980,383 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2009 | 11,288,281,093 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2010 | 10,650,710,132 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2011 | 10,679,691,693 scf | Gough, 2013 |
| Fuel CH4 emission | 1990 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1999 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 5.000E-06 g / btu | IPCC, 2006a |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel CH4 emission | 2001 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------|------|-----------------|------------|
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

► Sector = Ag Energy Use : Livestock

Activity = Fuel combustion - Natural gas

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Natural gas | 1990 | 886,125,020 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1991 | 843,685,297 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1992 | 711,058,372 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1993 | 783,391,736 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1994 | 840,259,086 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1995 | 793,717,272 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1996 | 804,022,207 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1997 | 981,134,636 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1998 | 1,072,053,701 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 1999 | 1,459,039,603 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2000 | 1,651,776,752 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2001 | 1,475,855,356 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2002 | 1,670,701,816 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2003 | 1,451,460,413 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2004 | 1,360,695,036 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2005 | 1,240,895,674 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2006 | 1,277,406,961 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2007 | 1,497,088,483 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2008 | 1,439,784,106 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2009 | 1,378,183,429 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2010 | 1,272,893,000 scf | Gough, 2013 |
| Fuel combustion - Natural gas | 2011 | 1,395,278,526 scf | Gough, 2013 |
| Fuel CH4 emission | 1990 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1991 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1992 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1993 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1994 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1995 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1996 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1997 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 1998 | 5.000E-06 g / btu | IPCC, 2006a |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel CH4 emission | 1999 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2000 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2001 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2002 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2003 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2004 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2005 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2006 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2007 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2008 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2009 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2010 | 5.000E-06 g / btu | IPCC, 2006a |
| Fuel CH4 emission | 2011 | 1.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.053 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.053 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1991 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1992 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1993 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1994 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1995 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1996 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1997 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1998 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 1999 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2000 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2001 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2002 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2003 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2004 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2005 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2006 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2007 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2008 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2009 | 1.000E-07 g / btu | IPCC, 2006a |
| Fuel N2O emission | 2010 | 1.000E-07 g / btu | IPCC, 2006a |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------------------------|------|-------------------|------------|
| Fuel N ₂ O emission | 2011 | 1.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 1,032 btu / scf | EIA, 2013e |
| Heat content | 1991 | 1,026 btu / scf | EIA, 2013e |
| Heat content | 1992 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 1993 | 1,038 btu / scf | EIA, 2013e |
| Heat content | 1994 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 1995 | 1,011 btu / scf | EIA, 2013e |
| Heat content | 1996 | 1,034 btu / scf | EIA, 2013e |
| Heat content | 1997 | 1,017 btu / scf | EIA, 2013e |
| Heat content | 1998 | 1,056 btu / scf | EIA, 2013e |
| Heat content | 1999 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2000 | 956 btu / scf | EIA, 2013e |
| Heat content | 2001 | 1,015 btu / scf | EIA, 2013e |
| Heat content | 2002 | 1,019 btu / scf | EIA, 2013e |
| Heat content | 2003 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2004 | 1,020 btu / scf | EIA, 2013e |
| Heat content | 2005 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2006 | 1,023 btu / scf | EIA, 2013e |
| Heat content | 2007 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2008 | 1,029 btu / scf | EIA, 2013e |
| Heat content | 2009 | 1,027 btu / scf | EIA, 2013e |
| Heat content | 2010 | 1,022 btu / scf | EIA, 2013e |
| Heat content | 2011 | 1,019 btu / scf | EIA, 2013e |

IPCC category = 1A5 — Fuel Combustion Activities - Non-Specified

► Sector = Not Specified Military

Activity = Fuel combustion - Distillate

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|-------------------------------|----------|---------------------|---------------|
| Fuel combustion - Distillate | 1990 | 227,853,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1991 | 188,142,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1992 | 139,628,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1993 | 30,936,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1994 | 78,156,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1995 | 90,434,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1996 | 62,147,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1997 | 18,242,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1998 | 23,144,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 1999 | 7,082,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2000 | 6,994,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2001 | 28,356,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2002 | 47,538,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2003 | 50,368,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2004 | 53,198,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2005 | 9,710,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2006 | 10,681,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2007 | 11,680,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2008 | 8,557,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2009 | 13,613,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2010 | 56,211,000 gal | EIA, 2013d |
| Fuel combustion - Distillate | 2011 | 39,730,000 gal | EIA, 2013d |
| Fuel CH ₄ emission | 1990 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH ₄ emission | 1991 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH ₄ emission | 1992 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH ₄ emission | 1993 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH ₄ emission | 1994 | 3.000E-06 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel CH4 emission | 1995 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1996 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1997 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1998 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 1999 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2000 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2001 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2002 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2003 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2004 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2005 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2006 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2007 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2008 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2009 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2010 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CH4 emission | 2011 | 3.000E-06 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1990 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.074 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.074 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1991 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1992 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1993 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1994 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1995 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1996 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1997 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1998 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 1999 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2000 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2001 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2002 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2003 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2004 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2005 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2006 | 6.000E-07 g / btu | USEPA 2012 |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|------------|
| Fuel N2O emission | 2007 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2008 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2009 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2010 | 6.000E-07 g / btu | USEPA 2012 |
| Fuel N2O emission | 2011 | 6.000E-07 g / btu | USEPA 2012 |
| Heat content | 1990 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1991 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1992 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1993 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1994 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1995 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1996 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1997 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1998 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 1999 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2000 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2003 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2004 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2005 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2006 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2009 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2010 | 138,000 btu / gal | USEPA 2012 |
| Heat content | 2011 | 138,000 btu / gal | USEPA 2012 |

IPCC category = 1A5bi — Fuel Combustion Activities - Non-Specified - Mobile - Mobile (Aviation Component)

► Sector = Not Specified Military

Activity = Fuel combustion - Jet fuel

| - Variable Name - | - Year - | - Value and Units - | - Reference - |
|----------------------------|----------|---------------------|-----------------------|
| Fuel combustion - Jet fuel | 1990 | 628,272,018 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 1991 | 623,397,669 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 1992 | 510,071,092 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 1993 | 498,457,153 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 1994 | 452,956,023 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 1995 | 437,067,861 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 1996 | 417,720,272 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 1997 | 380,735,115 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 1998 | 388,997,799 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 1999 | 373,629,067 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 2000 | 379,856,351 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 2001 | 413,660,159 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 2002 | 370,044,631 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 2003 | 372,181,710 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 2004 | 339,343,349 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 2005 | 336,774,630 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 2006 | 305,384,496 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 2007 | 285,390,657 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 2008 | 272,713,681 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 2009 | 260,519,367 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 2010 | 262,755,664 gal | Compilation, see text |
| Fuel combustion - Jet fuel | 2011 | 262,755,664 gal | Compilation, see text |
| Fuel CH4 emission | 1990 | 5.300E-07 g / btu | IPCC, 2006b |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|-------------------|------|-------------------|-------------|
| Fuel CH4 emission | 1991 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 1992 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 1993 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 1994 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 1995 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 1996 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 1997 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 1998 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 1999 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 2000 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 2001 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 2002 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 2003 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 2004 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 2005 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 2006 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 2007 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 2008 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 2009 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 2010 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CH4 emission | 2011 | 5.300E-07 g / btu | IPCC, 2006b |
| Fuel CO2 emission | 1990 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1991 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1992 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1993 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1994 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1995 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1996 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1997 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1998 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 1999 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2000 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2001 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2002 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2003 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2004 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2005 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2006 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2007 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2008 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2009 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2010 | 0.0722 g / btu | USEPA 2012 |
| Fuel CO2 emission | 2011 | 0.0722 g / btu | USEPA 2012 |
| Fuel N2O emission | 1990 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 1991 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 1992 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 1993 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 1994 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 1995 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 1996 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 1997 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 1998 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 1999 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 2000 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 2001 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N2O emission | 2002 | 2.100E-06 g / btu | IPCC, 2006b |

Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

| | | | |
|--------------------------------|------|-------------------|-------------|
| Fuel N ₂ O emission | 2003 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N ₂ O emission | 2004 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N ₂ O emission | 2005 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N ₂ O emission | 2006 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N ₂ O emission | 2007 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N ₂ O emission | 2008 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N ₂ O emission | 2009 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N ₂ O emission | 2010 | 2.100E-06 g / btu | IPCC, 2006b |
| Fuel N ₂ O emission | 2011 | 2.100E-06 g / btu | IPCC, 2006b |
| Heat content | 1990 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1991 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1992 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1993 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1994 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1995 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1996 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1997 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1998 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 1999 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2000 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2001 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2002 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2003 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2004 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2005 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2006 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2007 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2008 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2009 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2010 | 135,000 btu / gal | USEPA 2012 |
| Heat content | 2011 | 135,000 btu / gal | USEPA 2012 |